STEREO CASSETTE RECEIVER

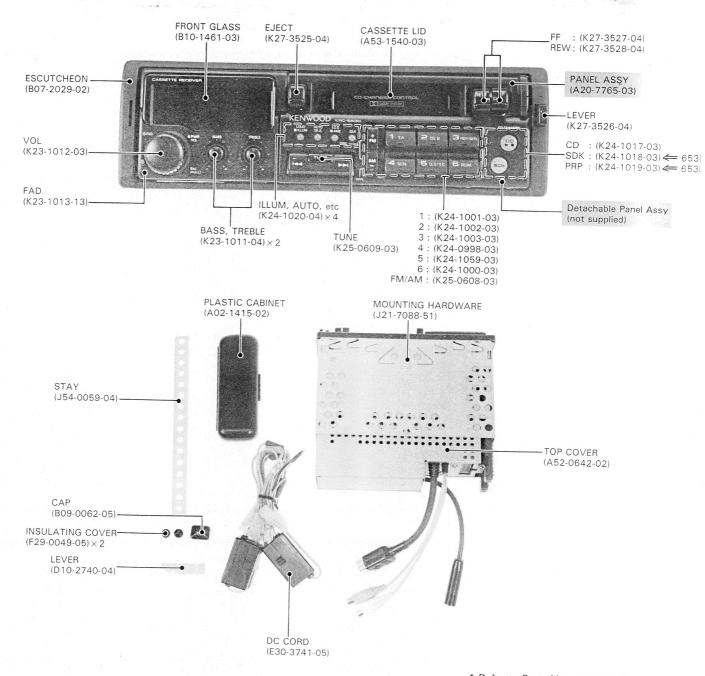
KRC-653D/L SERVICE MANUAL

KENWOOD

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Attention for parts order

- 1 PANEL ASSY (A20-7765-03) does not include Detachable Panel.
- 2 Detachable Panel Assy is not supplied by "ASSY" as service parts.
- $\ensuremath{\,^{\circ}}$ The detail is shown on the Exploded view for unit P42 and parts list P43 \sim P55.



^{*} Refer to Parts List on page 43.

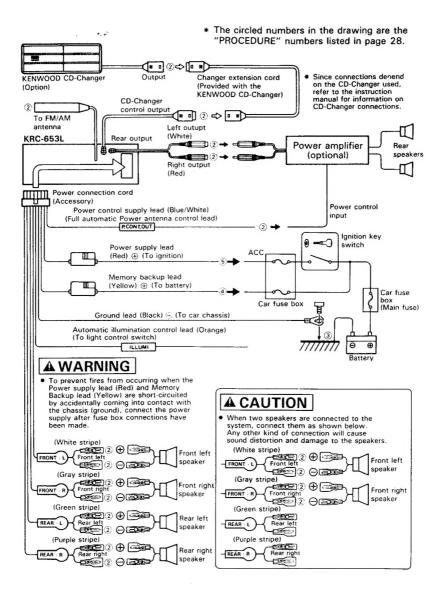
(RC-653D/L

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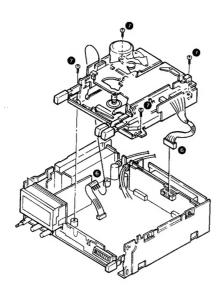
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CONNECTION

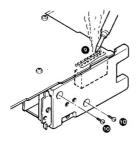


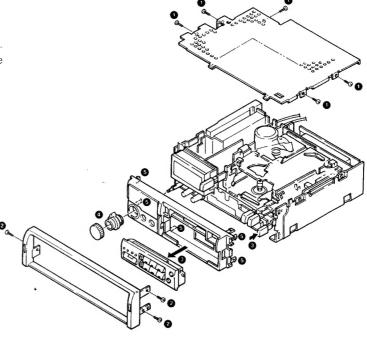
DISASSEMBLY FOR REPAIR

- 1. Remove the 5 screws (1) and remove the top cover.
- 2. Remove the 3 screws (2) and remove the top panel.
- 3. Press the lock button (3) and remove the switch assembly.
- Remove the volume control knob (4) and press in on the 5 tabs (5) to remove the panel assembly.

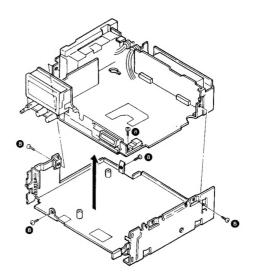


7. Remove the 5 screws (8) and remove the entire circuit board.





- 5. Remove the 2 connectors (6).
- 6. Remove the 4 screws (7) and remove the cassette mechanism.



- 8. Use a soldering iron to remove the solder from the pins of IC15 (3).
- 9. Remove the 2 screws (10) and remove the heat sink.

CIRCUIT DESCRIPTION

TERMINAL DESCRIPTIONS SYNTHESIZER UNIT (X14-344X-XX)

Ref. No. Components		Use/Function	Operation/Condition/Compatibility		
IC1	BA3424S	TAPE EQ AMP			
IC2	AN6262N	TAPE ADV	Detection of spaces between tunes on tape, and plunger cout.		
IC3	LA1140-K	FM IF AMP	FM IF signal amp.		
IC4	AN7465K	FM MPX N.C.	Demodulator, noise canceller.		
IC5	TDA1579	SDK IC	BK/DK signal demodulation and detection. D only		
IC6	NJM 4565M	SDK IC INPUT BUFF, BKBPF	D only		
IC7	HA12134AFP	Dolby B type	Signal switching between Tape and Tuner, signal amplification, and Dolby B encording.		
IC8	TC74HC04AF	CD-CH I/O	Buffer for data, communications with I/O box in CD-CH mode.		
IC9	1723GF-605-3BE 1723GF-606-3BE	μ-COM	Key control, other controls, PLL, LCD drive (605 D type 606 L, K type)		
IC10	BA3906-VI	AVR	Supplies of VDD, CE, COM 8 V, FM 8 and AM 8 V. MUTE output.		
IC11	TC4081BF	AND Gate	For use with μ-COM key matrix (alternate SW).		
IC12	NJM4565MD	TONE CONT AMP			
IC13	TC4066BF	ANALOG SW	Signal switching between Dolby out and CD-CH.		
IC14	BA3121F	ISOLATION AMP	CD-CH isolation amp.		
IC15	TA8215H	PWR AMP			
IC16	NJM4565MD	Buff AMP	Buff for PWR AMP and PREAMP.		
IC17	NJM4565MD	1/2 Vcc Buff	Buffers the voltage generated by Zender D and resistance division and supplies voltage as 1/2 Vcc for (the Dolby IC, ISO AMP, TONE AMP) and (Buff AMP, PREAMP)		
IC18	NJM4565MD	REAR PREAMP			
Q1	2SB1428	Plunger Driver	Drives the plunger based on the spaces between tunes detected by IC2.		
Q2	2SC2413K	FM IF AMP	Amplifies IF signal from F/E.		
Q3	DTC144EK	AFC SW	OFF during seek, ON during receive.		
Q4	2SC2412K	SD Buff			
Q5	2SC2412K	CRSC Driver			
Q6	2SC2412K	ANRC Buff			
Q7	DTC144EK	SK LAMP ERRONEDUS LIGHTING PREVENTION SW	D only		
Q15	DTC144EK	T-ADV SW	OFF during FF while T-ADV is ON.		
Q16	2SC2412K	MECHANISM MUTE SW	MUTE in FF, REW and PROG modes.		
Q17	DTA144EK	MECHANISM MUTE SW	MUTE in FF, REW and PROG modes.		
Q18	DTA 144EK	AM AGC CUT SW			
Q19	DTA 144EK	AM BS SW	Q20 control L type only		
Q20	DTC144EK	AM BS DRIVER	L type only		
Q21	2SC2412K	SD INV.			
Q22	2SC2412K	AM SD SW			
Q23	2SC2412K	FM SD SW			
Q24	DTC144EK	SD INV.			
Q25	DTC144EK	FM LO/DX SW			
Q26	DTA114EK	PWR ON 5 V SW			
Q27	DTC114EK	PWR ON 5 V SW			
Q28	DTC124Ek	PWR ON 5 V INH SW			

CIRCUIT DESCRIPTION

Ref. No.	Components	Use/Function	Operation/Condition/Compatibility
Q29	DTC144EK	LED+B DRIVER SW	
Q30	DTA144EK	LED+B SW	
Q31	2SC2412K	PWR ON 5 V INH SW	
Q32	2SC2412K	ACC and TPC DET SW	
Q33	DTA144EK	AVR STBY CONTROL	
Q34~36	2SC2412K	PLL LPF	FM/AM Vt LPF
Q37	2SA1037K	CD-CH REQ IN CONTROL	When ACC is ON, recognizes whether CD-CH is connected or not, and outputs signal to μ -COM.
Q38	2SC2412K	CD-CH CD CON BUFF	
Q39	DTC144EK	CD-CH REQ IN BUFF	
Q40	DTC144EK	CD-CH REQ IN BUFF	
Q41	2SB1370F8	ILLUMINATION AVR	10.4 V Darlington
Q42	2SC2412K	ILLUMINATION AVR	10.4 V Darlington
Q43	2SA1037K	VOL BOOST SW Driver	D only
Q44	2SA1037K	LOUD SW Driver	ON in LOUD mode to drive Q68, Q69.
Q45, 46	2SB1277	ILLUMINATION SW driver	
Q47~49	DTC144EK	ILLUMINATION SW driver SW	
Q50	DTA144EK	MANUAL RST	CD-CH RST.
Q51	2SC2412K	Alternate key SW	DK SW D only
Q52	2SC2412K	Alternate key SW	SK SW D only
053	DTC144EK	LOCAL INH.	
Q54	2SA1428	MOTOR DRIVER	
Q55	DTC144EK	MOTOR DRIVER SW	
Q58	DTC144EK	PWR AMP STBY SW	
Ω59	DTC144EK	P.CONT OUT SW	
Q60	DTA144EK	ILLUMINATION SW	
Q65	2SA1037K	Audio Mute Driver	ON in Mute mode to drive Q66, Q67.
Q66, 67	2SD1757K	Audio Mute	
Q68, 69	2SC2412K	LOUD CON SW	
Q70, 71	2SD1757K	VOL BOOST SW	
Q72	DTC144EK	SIG SW	ON in CD-CH.
Q73	DTC144EK	SIG SW	OFF in CD-CH.

CIRCUIT DESCRIPTION

DAUGHTER UNIT (X89-144X-XX)

Ref. No.	Components	Use/Function	Operation/Condition/Compatibility
Q1	2SB822F	P.CONT OUT driver	
Q2	2SA1037K	Protect Q1 Tr	Drives P-CONT output, protects its current.
Q3	2SA1037K		
Q4	DTC114EK	P.CONT OUT driver SW	OFF during MUTE OUT.

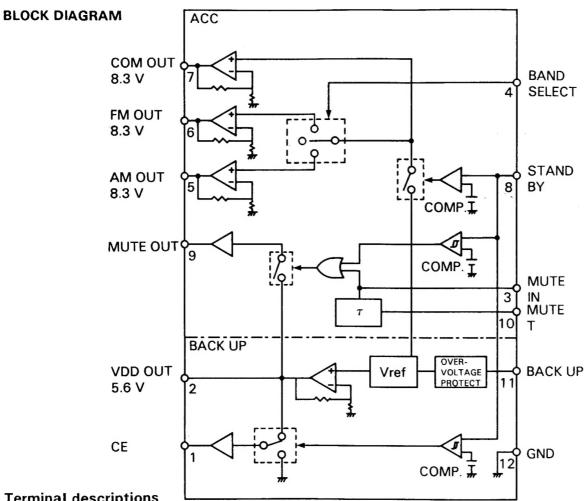
DAUGHTER UNIT (X89-143X-XX)

Ref. No.	Components	Use/Function	Operation/Condition/Compatibility
Q1, 2	DTC124EK	ILLUMINATION SW	
Q3, 4	DTB143EK	ILLUMINATION SW	
Q5	DTC144EK	PACK IN DET	
Q6, 7	DTC144EK	MUTE DRIVER SW	
Q8, 9	2SC2412K	ACC DETECT	
Q10	2SC2412K	ACC DETECT	Outputs early MUTE when ACC is lowered or during manual reset.
Q11	DTC144Ek	ACC DETECT	Performs early grounding of μ -COM CE pin when ACC is switched OFF.
Q12	DTC144EK	TAPE MUTE INH	

CIRCUIT DESCRIPTION

BA3906-V1 (IC11: X14-3470-11)

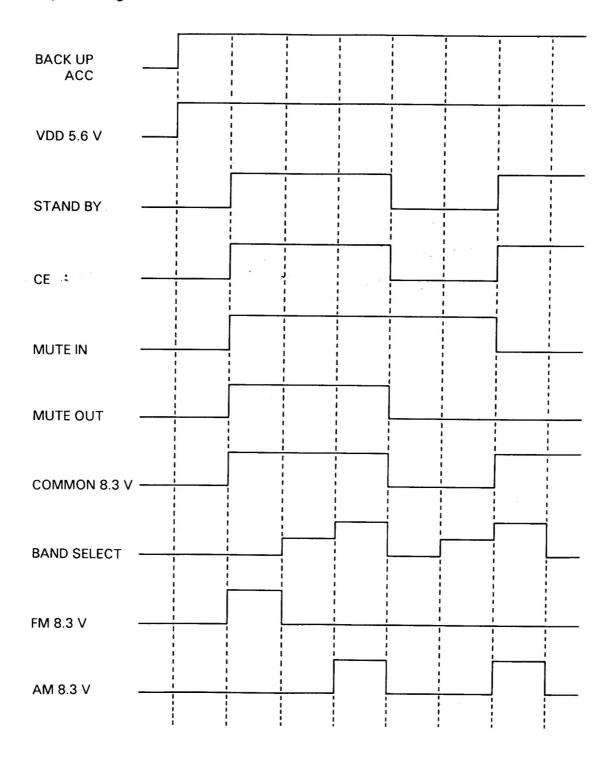
Power Supply IC



1	CE	Outputs $0.82 \times V_{PP}$ or more when the μ -COM is to be operated normally, and outputs 0 V when it is not used.
		Holds 0 V even during stand-by.
2	V _{DD}	5.6 V power supply with 60 mA max. output current. For use with μ-COM. Permanently outputs voltage provided that the backup power is connected.
3	MUTE IN	Input terminal for MUTE from μ-COM or other external sources.
4	BAND	AM/FM output selection input with 3-state input.
	SELECT	8.3 V power supply with 145 mA max. output current. For use in AM reception.
5	AM OUT	Outputs power when "H" is input to BAND SELECT terminal.
6	FM OUT	8.3 V power supply with 250 mA max. output current. For use in FM reception.
		Outputs power when "L" is input to BAND SELECT terminals.
7	COM OUT	8.3 V power supply with 125 mA max. output current. For use in tone control.
		The power can be used as the system common power for the volume/balance control, for the equalizer, in the cassette tape deck, and
		for the varicap in the electronic tuner. Power is output when STANDBY terminal is 6.5 V or more, regardless of the BAND SELECT terminal position.
8	STAND BY	0 V for stand-by mode, in which signal is output only from V _{DD} terminal. The voltage at this terminal determines CE output and MUTE OUT output as well as AM OUT, FM OUT and COM OUT outputs.
9	MUTEOUT	MUTE transistor driver.
10	MUTE	Time constant terminal for MUTE IN.
11	BACK UP	Connected to backup power and ACC power of the vehicle.
12	GND	Input/output timing chart Ground.

CIRCUIT DESCRIPTION

Input/Output timing chart 102



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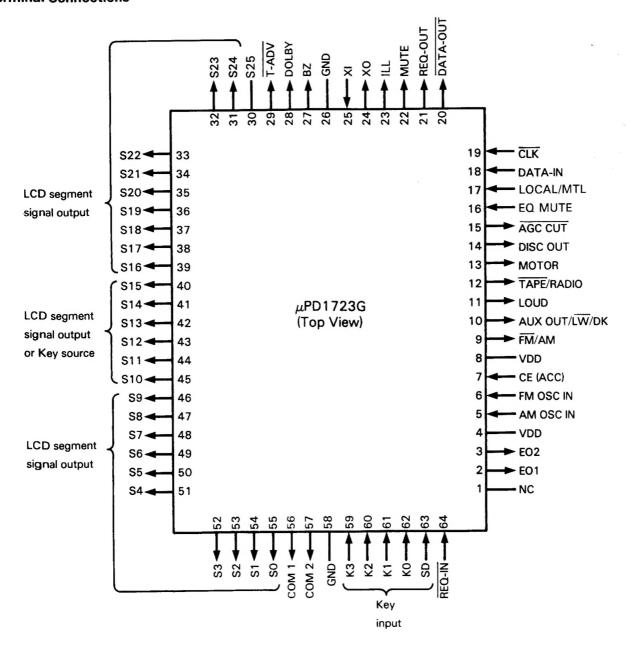
(RC-653D/L

CIRCUIT DESCRIPTION

1723GF-605-3BE (IC9: X14-344X-XX) 1723GF-606-3BE (IC9: X14-351X-XX)

Microprocessor IC

Terminal Connections



CIRCUIT DESCRIPTION

Terminal descriptions

Pin No.	Pin Name	I/O	Function Name	Operation	
1	NC		NC		
2	EO1	0	EO1	PLL error output terminals. If the frequency obtained by dividing the local oscillation frequency (VCO output) is higher than the reference frequency, these terminals output	
3	EO2	0	EO2	"H" level. If not, they output "L" level.	
4	V _{DD}		VDD	Power input terminal.	
5	V COL	1	AM OSC IN	Inputs VCO output from 0.50 to 30 MHz.	
6	V COH	1	FM OSC IN	Inputs VCO output from 15 to 200 MHz.	
7. '	CE	I	CE (ACC)	"H" level when it is required that the device operate normally. "L" level when the devices is not used.	
8	V _{DD}		VDD	Power input terminal.	
9	PD1	0	FM/AM	FM/AM switching port. Outputs "H" during AM reception. Outputs "L" during FM reception. Fixed at "H" in TAPE, CD modes, and "L" while SDK (SDK type) is ON. During tuner call, the output varies depending on the band.	
10	PD2	0	ŪW/DK	L type: Outputs "L" during LW reception. Also outputs "L" during LW reception in course of tuner call. D type: Volume increase output during DK interrupt. K type: (NC). Permanently "L".	
11	PD3	0	LOUD	Loudness control ON/OFF output terminal Switched to "H" or "L".	
12	PC0	0	TAPE	TAPE audio switching port. "L" when only TAPE.	
13	PC1	0	MOTOR	Cassette mechanism motor ON/OFF control port. Outputs "H" while TAPE IN key is OFF. Outputs "L" in PRP, CD-CH and DK in (SDK type) modes.	
14	PC2	0	DISC OUT	Outputs "H" when operating CD changer. Outputs "L" during PRP and DK interrup (SDK type).	
15	PC3	0	AGC CUT	Normally, outputs "L" while CE is "H". Outputs "H" during seek.	
16	PAO	0	EQ-MUTE	Muting output for prevention of sound leakage during tape FF/REW. When FF/REW is "L": EQ MUTE output is "L". EQ MUTE is "H" in other modes than tape mode and during DK interrupt.	
17	PA1	0	LOCAL/MTL	LOCAL is "H"during seek, SK seek or AME while Local sens is turned ON by the ke in the tuner mode. LTL is "H" when MTL is turned ON by the key in the tape mode and "L" in other cases.	
18	PA2	ı	DATA-IN	Input terminal of DATA from CD-CH.	
19	PA3	ı	CLK	Input terminal of CLK from CD-CH.	
20	PBO	0	DATA-OUT	Output terminal of DATA to CD-CH.	
21	PB1	0	REQ-OUT	Output terminal of requests to CD-CH.	
22	PB2	0	MUTE	MUTE output terminal, which outputs "H" in MUTE period. MUTE is not output whi CE is "L". If CE turns from "H" to "L" during MUTE output, MUTE also turns from "H" to "L"	
23	PB3	0	ILL	Output port is inverted every time ILL key is held (1 sec.). Output port state is he during backup.	
24	хо	0	XO	X'tal connection terminals.	
25	ΧI	1	XI		
26	GND		GND		
27	CGP	0	BZ	Beep sound polse output port. Outputs 2.0 kHz pulse for 60 ms.	
28	PL3	0	DOLBY	Dolby control output terminal. Outputs "H" when Dolby is ON.	
29	PL2	0	T-ADV	T-ADV control output terminal. Outputs "L" only when T-ADV and alternate S W FF/RE are ON in TAPE mode. Flashing pulse is output when CE is "L" while se curity Li is in flashing mode.	
30~39	LCD25~16	0	S25~16	Segment output terminals.	

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CIRCUIT DESCRIPTION

Terminal descriptions

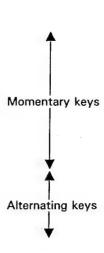
Pin No.	Pin Name	1/0	Function Name	Operation
40	LCD15/KS15	0	S15	Segment output and key source terminals.
41	LCD14/KS14		S14	
42	LCD13/KS13		S13	
43	LCD12/KS12		S12	
44	LCD11/KS11		S11	
45	LCD10/KS10		S10	
46~55	LCD9~LCD0	0	S9~S0	Segment output terminals.
56	COM1	0	COM1	Common output terminals.
57	COM2	0	COM2	
58	GND		GND	
59	K3	ı	К3 .	Key input terminals.
62	KO		КО	
63	AD	ı	SD	Station detection input terminal. Inputs "H" when a station is detected.
64	ĪNT	1	REQ-IN	Input terminal for requests from CD-CH.

CIRCUIT DESCRIPTION

KEY MATRIX

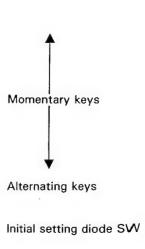
D type

	KO (62)	K1 (61)	K2 (60)	K3 (59)
KS10 (45)	CLK	AM/DISC -	1/T-ADV	4/SCN
KS11 (44)	LO.S/AME	FM/DISC+	2/DOLBY	5/T-C/D-SCN
KS12 (43)	AUTO/SK.S	UP/TRACK+	3/MTL/REP	6/RDM
KS13 (42)	LOUD/ILL	DOWN/TRACK -	DISC	SDK
KS14 (41)	TAPE-IN	FWD/REV	FF, REW	ST
KS15 (40)	·	SK	DK-IN	



L, K type

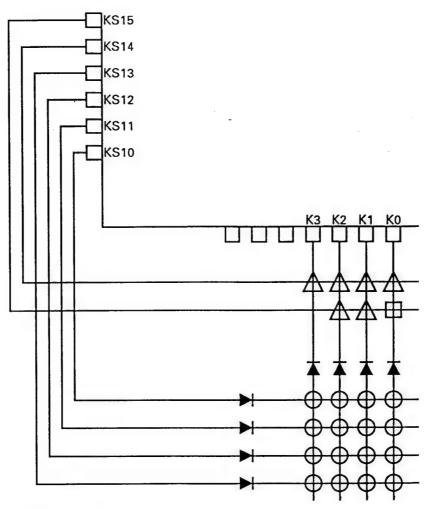
	KO (62)	K1 (61)	K2 (60)	K3 (59)
KS10 (45)	CLK	AM/DISC -	1/T-ADV	4/SCN
KS11 (44)	LO.S/AME	FM/DISC+	2/DOLBY	5/T-C/D-SCN
KS12 (43)	AUTO	UP/TRACK+	3/MTL/REP	6/RDM
KS13 (42)	LOUD/ILL	DOWN/TRACK -	DISC	PRP
KS14 (41)	TAPE-IN	FWD/REV	FF, REW	ST
KS15 (40)	BAND			



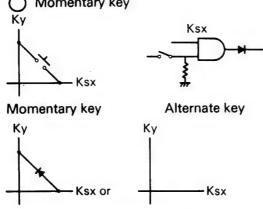
BAND	DESTINATION	Remark
On	U.S.A.	Switchable to KN type (general destination).
Off	Europe	With LW band, without SDK

CIRCUIT DESCRIPTION

Key matrix configuration and model



- ▲ Alternate key
- ☐ Initial-setting diode switch
- Momentary key



Initial-setting diode-switch

CIRCUIT DESCRIPTION

Operations related to panel detachment/attachment

• Set illumination lighting by position lamp lighting

Even when ACC is OFF (power OFF), the lamps on the X89 LCD PC board can be lighted if the position lamps of the car are lighted, regardless of the detached/attached state of the panel. The set can naturally be illuminated when ACC is ON and the panel is attached (or TPC7 is connected to GND) even when the position lamps are OFF. In this case, the LED on the X25 panel PC board is also lighted.

ACC detection

ACC (power ON) is detected by Q32, but the power to the set is turned ON only when the emitter of Q32 (TPCDET) is connected to GND (that is, TPC7 is grounded or the panel is attached).

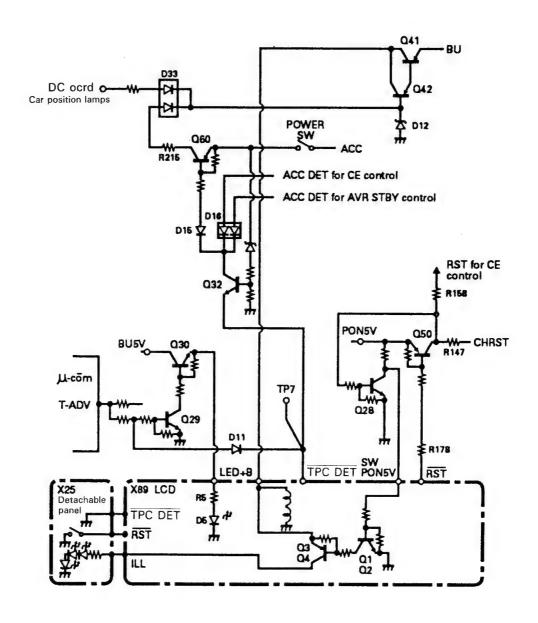
Panel detached/attached illumination terminal on X89

To prevent voltage from being generated at the ILLUM terminal when the panel is detached (to prevent damage in case of short-circuit), the panel detachment/attachment illumination terminal inhibits Q1 to Q4 with P-on 5 V.

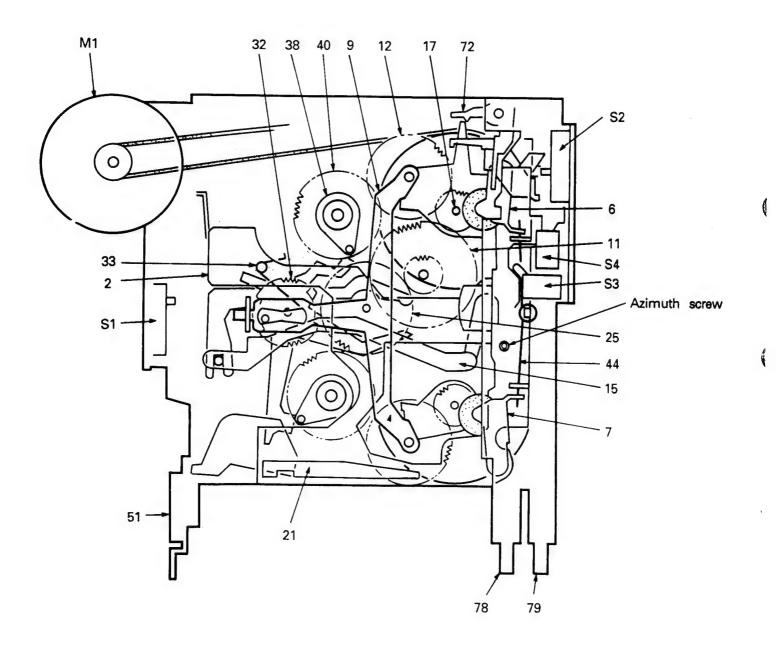
• X89 flashing LED (D5)

While the panel is detached, the LED (D5) on X89 is designed to flash for the car security.

The flashing mode can be turned ON/OFF when power is turned ON by pressing keys 1 and 3 simultaneously. LED+B which causes the LED to flash is output as a pulse from the T-ADV port of μ -COM when μ -COM CE is ''L'' and the flashing mode is ON. When the panel is detached, the pulse turns Q29 ON/OFF to supply the flashing voltage through LED+B.



KRC-653D/L MECHANISM OPERATION DESCRIPTION

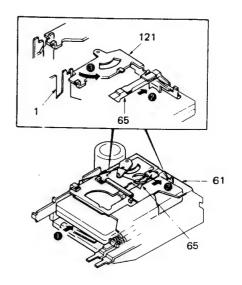


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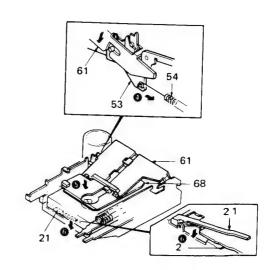
MECHANISM OPERATION DESCRIPTION

LOADING/PLAY

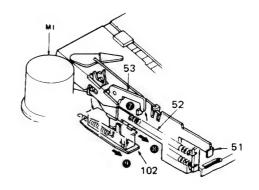
- 1. Insert a cassette tape (1).
- 2. The cassette guide (65) pushes to lever (reverse [121]) (2).
- 3. The lever (reverse [121]) turns in the direction of the arrow and releases the lock of the holder (action plate [61]) (3).



- 4. Through the lock release of the lever (reverse [121]), the arm (action [53]) is pulled by the tension spring (54), which turns the holder (action plate [61]). The holder (action plate) descends (4).
- 5. Through the descent of the holder (action plate [61]), the holder (cassette case [68]) also descends (5).
- As the holder (cassette case [68]) descends, the cassette tape pushes the lever (lock plate [21]). The lever (lock plate [21]) then releases the lock of the lever assembly (head plate [2]) ().

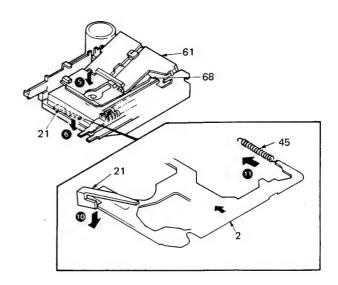


- 7. As the arm (action [53]) turns, the lock of the lever assembly (eject [51]) is released (7).
- 8. The lever assembly (eject [51]) is pulled by the tension spring (52) and moves forward (3).
- 9. Through the movement of the lever assembly (eject [51]), the lever (102) also moves forward and turns on the slide switch S1. As the slide switch S1 is turned on, electricity is supplied to the motor assembly (M1) (3).

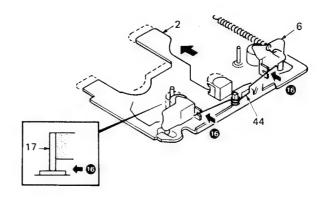


MECHANISM OPERATION DESCRIPTION

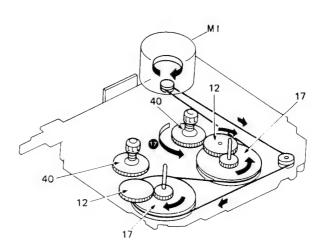
- 10. As the holder (cassette case [68]) descends, the cassette tape pushes the lever (lock plate [21]) then releases the lock of the lever assembly (head plate [2]) (10).
- 11. The lever assembly (head plate [2]) is pulled by the tension spring (45) and moves forward (11).



12. Through the forward movement of the lever assembly (head plate [2]), pinch roller assembly (6) make close contact with the shaft of the flywheel (17) through the formed wire spring (44) (16).



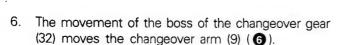
13. The rotation is transmitted from each gear (17-12) to the reel base (40) of the take-up side (17).

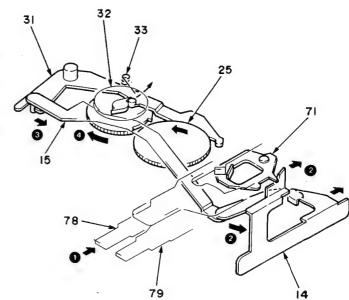


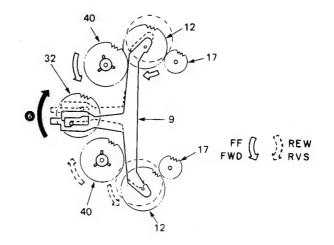
MECHANISM OPERATION DESCRIPTION

PROGRAM

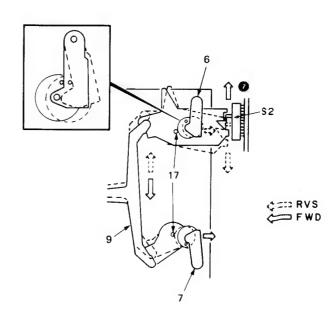
- 1. Push the FF and REW levers simultaneously (1).
- 2. The arm assembly (15) moves toward the right (2).
- 3. The lever (31) is pulled (3), and the changeover gear (32) is unlocked.
- 4. The changeover gear is pushed by the torsion spring (33), and engaged with the cam gear (25) (4).
- 5. The changeover gear (32) is rotated by a half turn and locked with the lever (31) again.







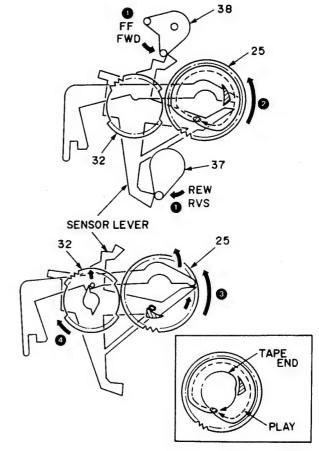
7. When the changeover arm (9) moves, the drive direction of the reel base (40), head switch (S2) and pinch roller is switched between FWD and RVS (1).



MECHANISM OPERATION DESCRIPTION

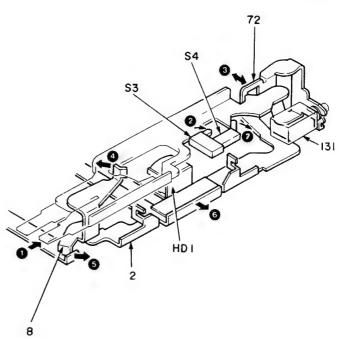
AUTO REVERSE

- 1. When the reel base (40) stops rotation at the end of tape, the arm (38) stops pushing the sensor lever (1).
- 2. The sensor lever is engaged with the cam projection of the cam gear (25) and carried until the intermediate point of the cam gear (2).
- 3. Then, the sensor lever is carried by the triangular boss of the cam gear (25) and pushes the lock lever (3).
- 4. When the lock lever is pushed, the changeover gear rotates and the program operation starts (4).



FF

- 1. Push the lever FF (79) (1).
- 2. Pushing the lever FF (79) closes the leaf switch (S3) and muting is applied (2).
- 3. The lever FF (79) is locked by the arm (72) (3).
- 4. By pushing the lever FF (79), the lever (8) is pushed in the direction of arrow (4).
- 5. Through being pushed, the lever (8) moves the lever assembly (head plate [2]) backward a little (5). The playback head (HD1) and pinch roller also moves backward a little.
- 6. The rotation of the reel base (40) is high-speeded by the speed selector switch (S4) (6).
- 7. In the operation of T.ADV, electricity is supplied to the solenoid (131), which attracts the arm (FR release [72]). The lock on the arm (FR release [72]) is released, FF is released and FWD PLAY is engaged.

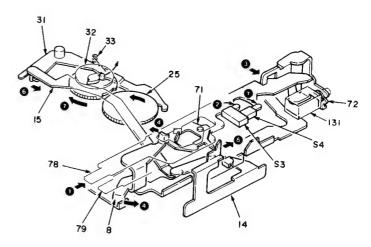


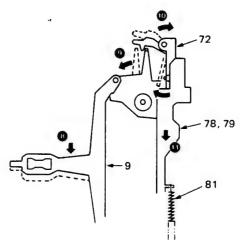
KRC-653D/I

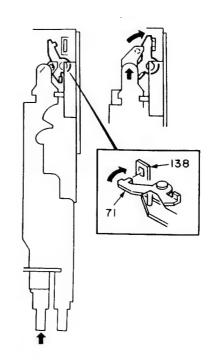
MECHANISM OPERATION DESCRIPTION

REW

- 1. Push the lever REW (78) (1).
- 2. Pushing the lever REW (78) closes the leaf switch (S3) and muting is applied (2).
- 3. The lever REW (78) is locked by the arm (72) (3).
- 4. By pushing the lever REW (78), the lever (8) is pushed in the direction of arrow (4).
- 5. Through being pushed, the lever (8) moves the lever assembly (head plate [2]) backward a little (5). Through the backward movement of the lever assembly, the playback head (HD1) and pinch roller (7) also moves backward a little.
- This time, the lever REW (78) moves the arm assembly (15) and PROGRAM operation is engaged (6).
- 7. The rotation of the reel base (40) is high-speeded by the speed selector switch (S4) ().
- 8. At the tape end during the operation of REW, the end sensor is activated, and the changeover arm (9) moves the arm (72) during the operation of PROGRAM (8) (9) (10). The lever REW (78) is released (11).
- 9. To release REW, slightly depress the lever FF (79).
- 10. By depressing the lever FF (79), the arm (72) moves, and the lever REW (78) returns by the tension spring (81) (11).
- 11. In the operation of T.ADV, electricity is supplied to the solenoid (131), which attracts the arm (FR release [72]). The lock on the arm (FR release [72]) is released, REW is released, and RVS PLAY is engaged.
- 12. In the channel select operation of this time, the actuator (138) is locked with a hook (71) so that the head select switch does not switch.



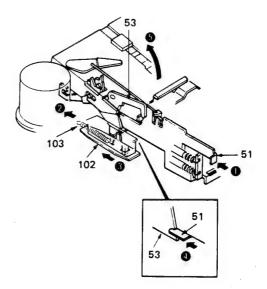




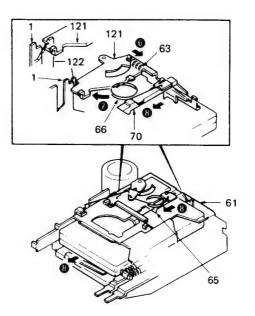
MECHANISM OPERATION DESCRIPTION

EJECT

- 1. Push the lever assembly (eject [51]) (1).
- 2. By pushing the lever assembly (eject [51]), the tension spring (103) pushes the lever (102) (2).
- 3. Though pushing the lever (102), the slide switch (S1) is turned off, and the lever assembly (head plate [2]) moves backward (3).
- 4. The lever assembly (eject [51]) pushes and turns the arm (action [53]) (4).
- 5. By turning, the arm (action [53]) pushes up the holder (action plate [61]) (5).



- 6. When the holder (action plate [61]) is pushed up, the lever (reverse [121]) is pulled by the tension spring (63) and turns (6).
- 7. In turning, the lever (reverse [121]) is put on the lever of the mechanism chassis (122) (7).
- 8. The cassette guide (65) is pushed forward by the torsion coil spring (66), and the cassette tape is ejected (3).



ADJUSTMENT

Set the controls and switches as follows.

BALANCE :center position LOUD :OFF FADER :center position

T · ADV :OFF

LOCAL AUTO

:OFF

:OFF

BASS center position: TREBLE :center position

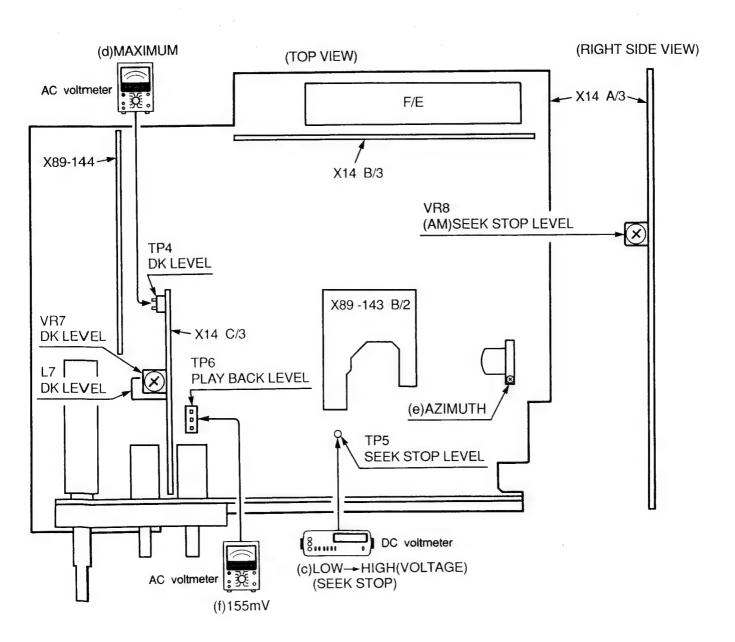
METAL :OFF

DOLBY NR :OFF

		INPUT	OUTPUT	TUNER (RECEIVER)	ALIGNMENT		
No.	ITEM	SETTINGS	SETTINGS	SETTINGS	POINTS	ALICH FOR	FIG
FI	M SECTION			CETTINGS	101113	ALIGN FOR	FIG.
1	DISCRIMINATOR		Connect the DC voltmeter between pins of TP1.(X14 B/3	FM 98.1MHz	L6 (X14 B/3)	OV	(a)
2	SEPARATION	(C) 98.1MHz 1kHz.±40kHz dev Pilot:±7.5kHz dev Selector:L or R 60dBµ(ANT input)	(B)	FM 98.1MHz	VR5 (X14 B/3)	Adjust it so that the crosstalk from L to R and R to L become minimum.	
3	ANRC	(C) 98.1MHz 1kHz, 440kHz dev Pilot:±7.5kHz dev Selector:L or R 35dBµ(ANT input)	(B)	. FM 98.1MHz Connect a lerd wire between TP3 and GND	VR4 (X14 B/3)	Separation 10dB	
4	SEEK STOP LEVEL	(A) 98.1MHz 1kHz,±40kHz dev 20dBµ(ANT input)	Connet the DC voltmeter to TP5 (X14 A/3)	FM SEEK:ON 98.1MHz	VR8 (X14 A/3)	Low-→High(Voltage) (Seek stop)	(c)
5	VCO	(A) 98.1MHz O dev 60dBµ(ANT input)	Connect a frequency counter to TP2 (2) and GND	FM 98.1MHz Connect a R(180KΩ) between TP2(1) and GND	VR6 (X14 B/3)	19KH2	(b)
SD	K SECTION	(KRC-653D	Only)			1	
6 MW	DK LEVEL	(E) 98.1MHz 0 mod SK 5.33% DK 30% BK 60% 60dBµ(ANT input)	Connect a AC voltmeter to TP4 (X14 A/3)	FM 98.1MHz SDK:OFF	L7 VR7 (X14 C/3)	. Maximum	(d)
141 44	SECTION	(0)					-
(1)	SEEK STOP LEVEL	(D) 999kHz 400Hz,30% mod 35dBµ(ANT input)	Connect the DC voltmeter to TP5(X14 A/3)	MW 999kHz	VR8 (X14 A/3)	Low—High(Voltage) (Seek stop)	
CA	SSETTE DE	CK SECTION					$\neg \neg$
[1]	AZIMUTH	MTT-114 10kHz	(B)	TAPE PLAY	Head Azimuth Screw	Adjust the azimuth for each L CH/R CH or FWD/RVS becomes maximum.	(e)
[2]	PLAYBACK LEVEL	MTT-150	Connect a AC voltmeter to TP6(X14 A/3)	TAPE PLAY	VR1(L) VR2(R) (X14 B/3)	155mV	(1)

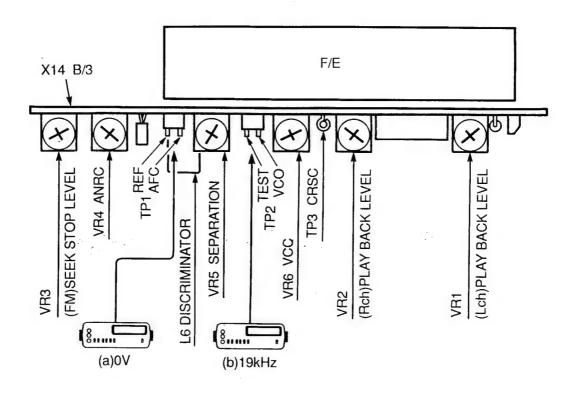
KRC-653D/L (E)

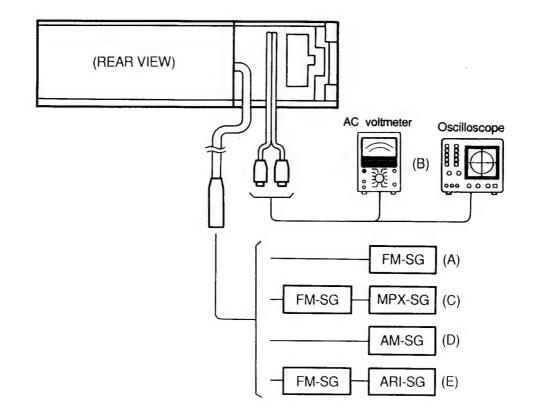
ADJUSTMENT



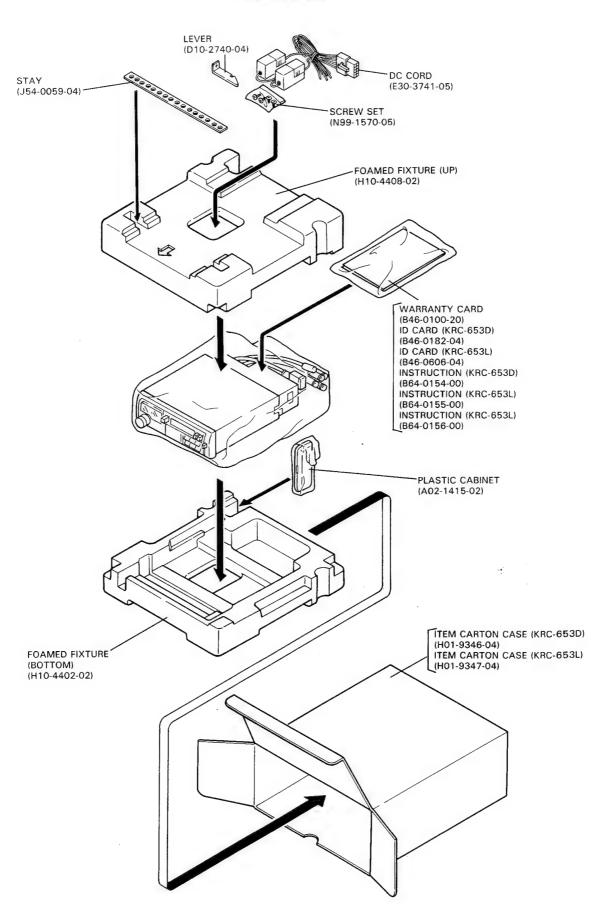
ADJUSTMENT

DAUGHTER UNIT ADJUSTMENT

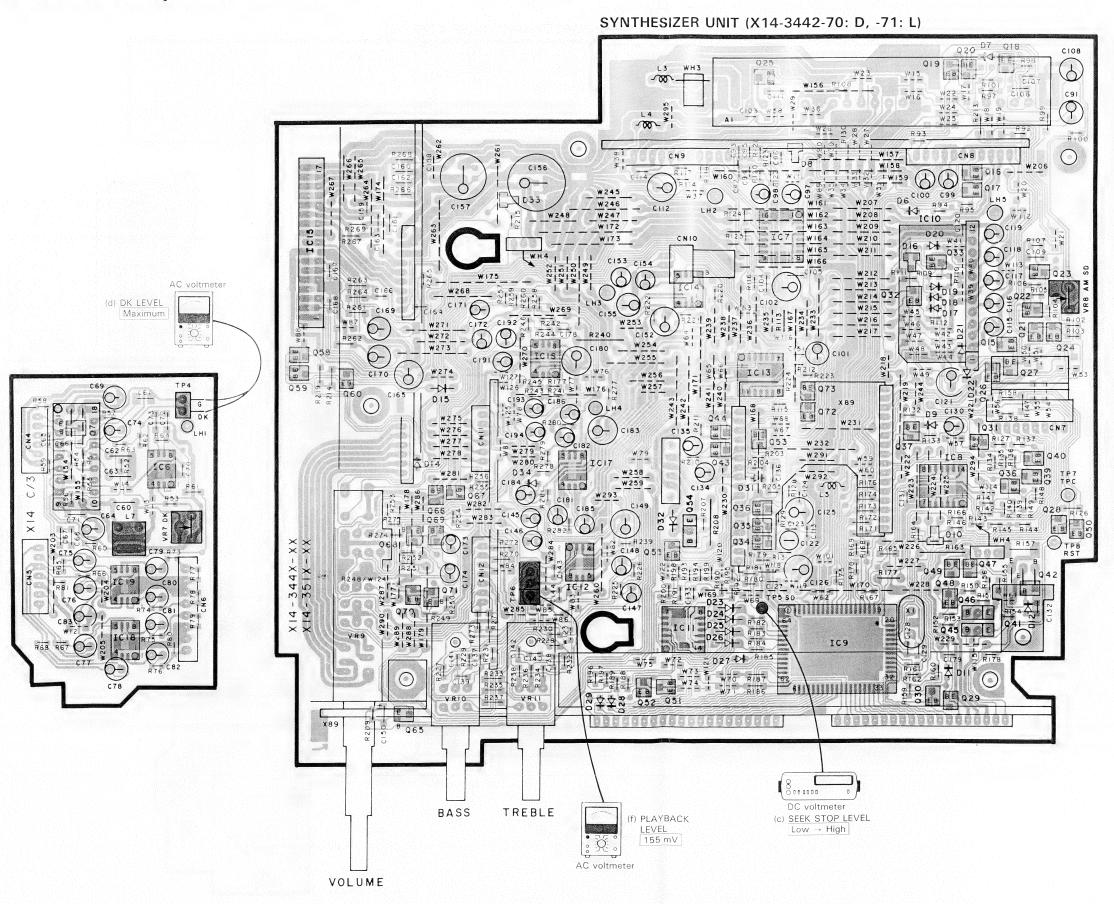


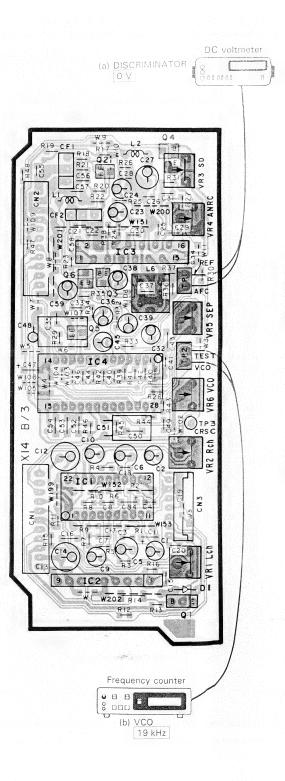


PACKING

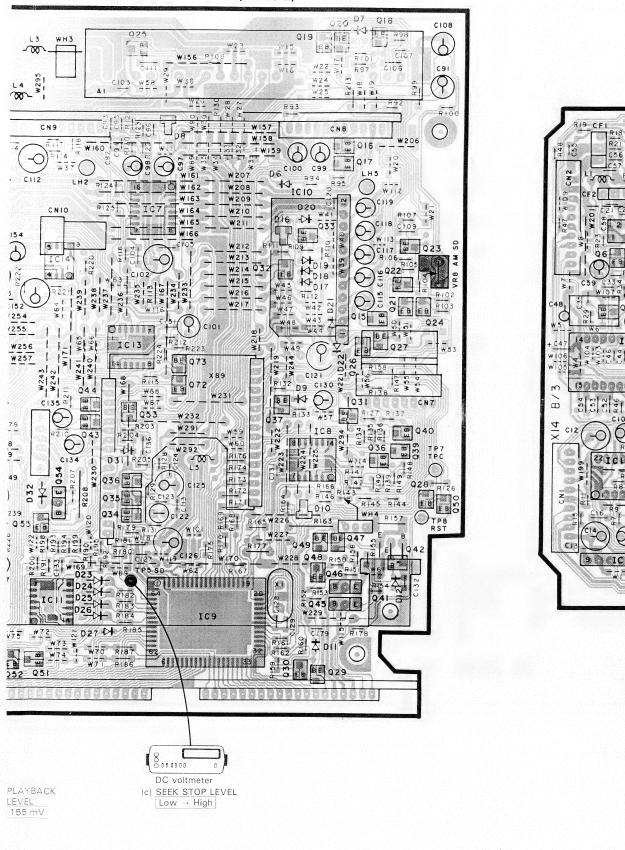


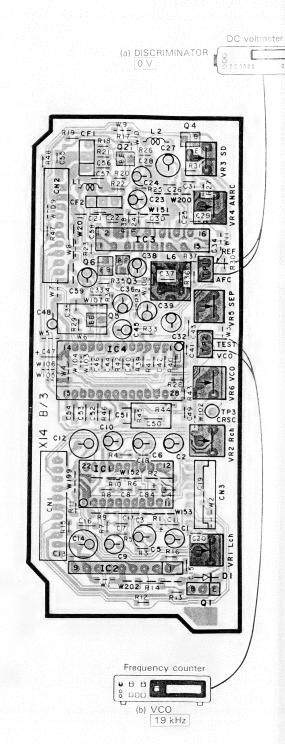
PC BOARD (Component side view)

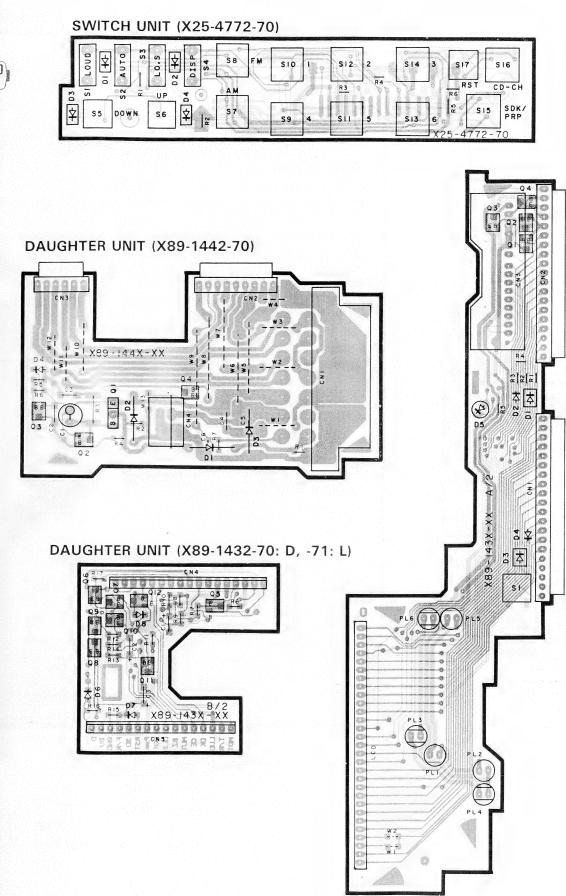




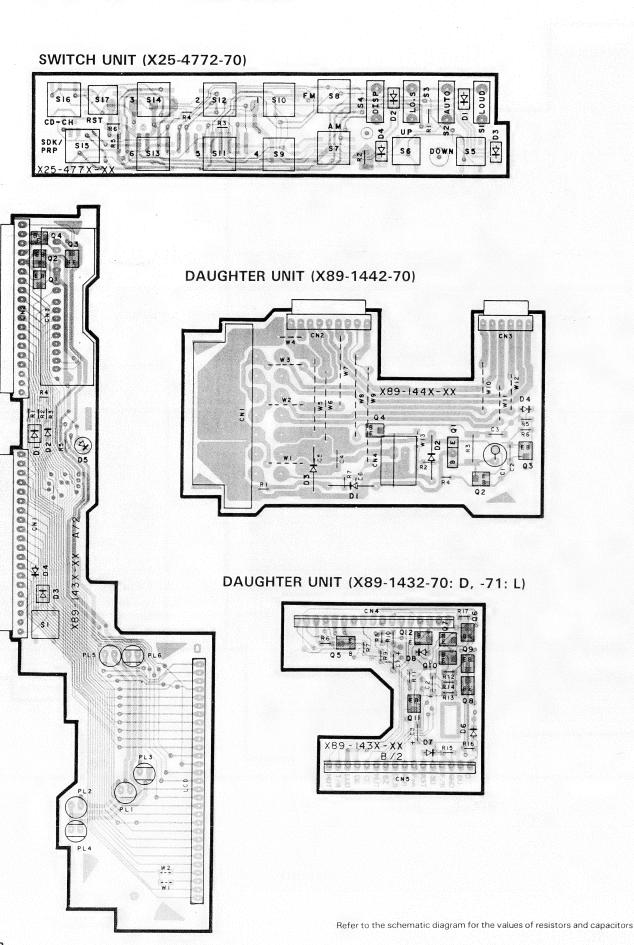
HESIZER UNIT (X14-3442-70: D, -71: L)

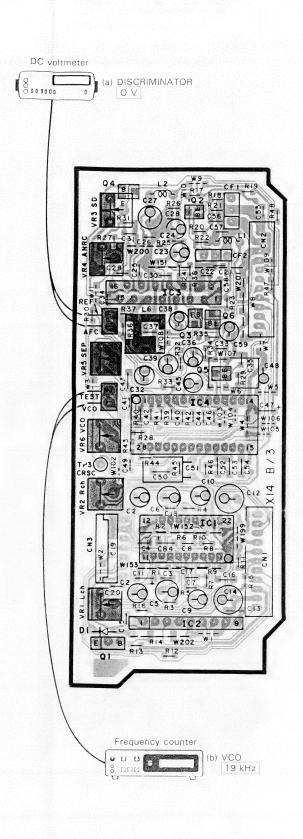




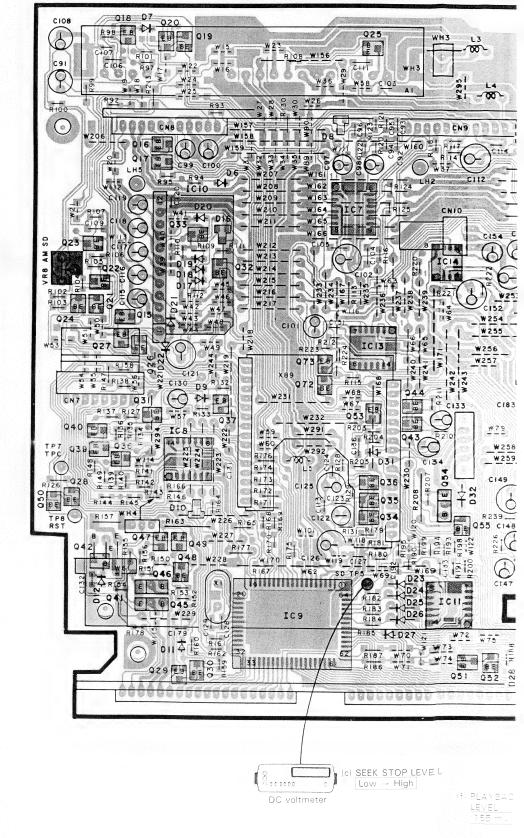


PC BOARD (Foil side view)





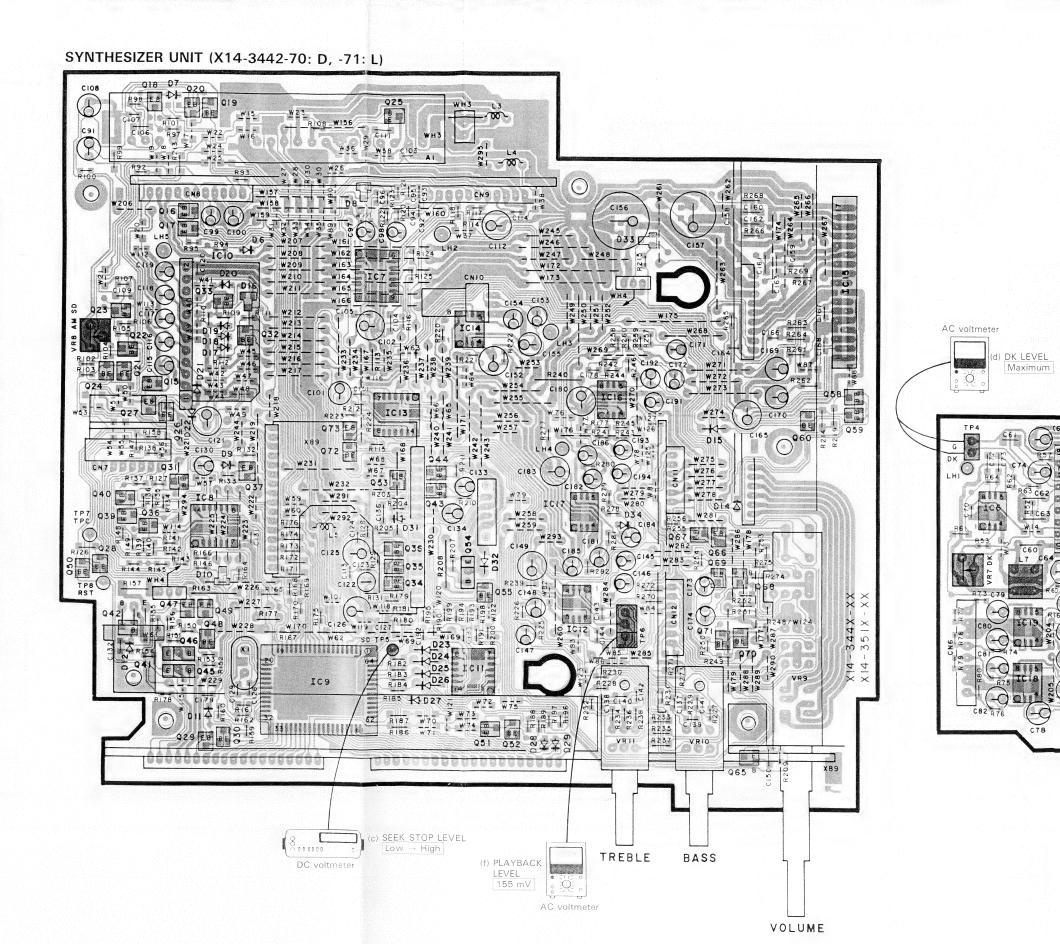
SYNTHESIZER UNIT (X14-3442-70: D, -71: L)



) DK LEVEL Maximum

R53 C62 C660 R63 C660

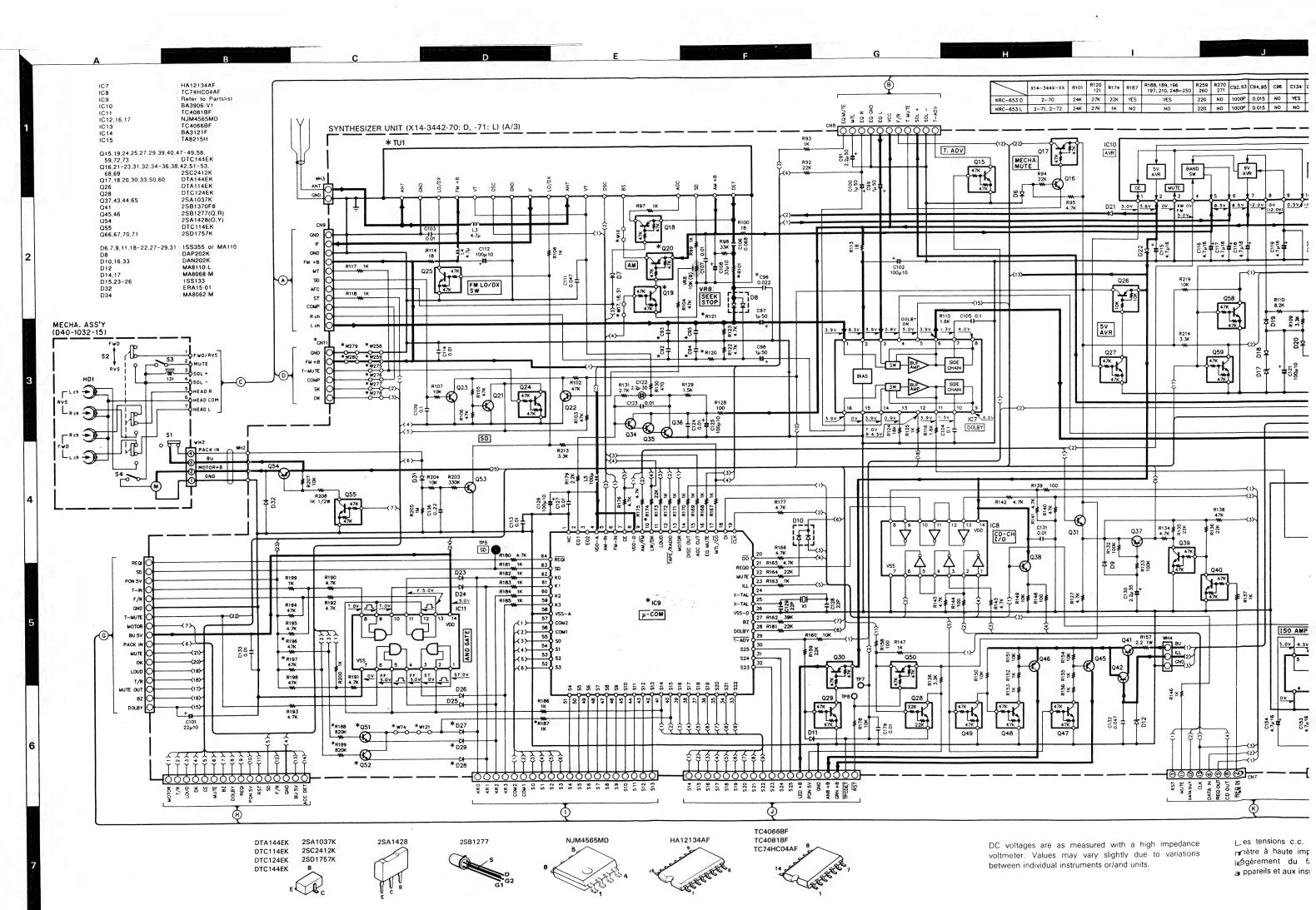
(-9)

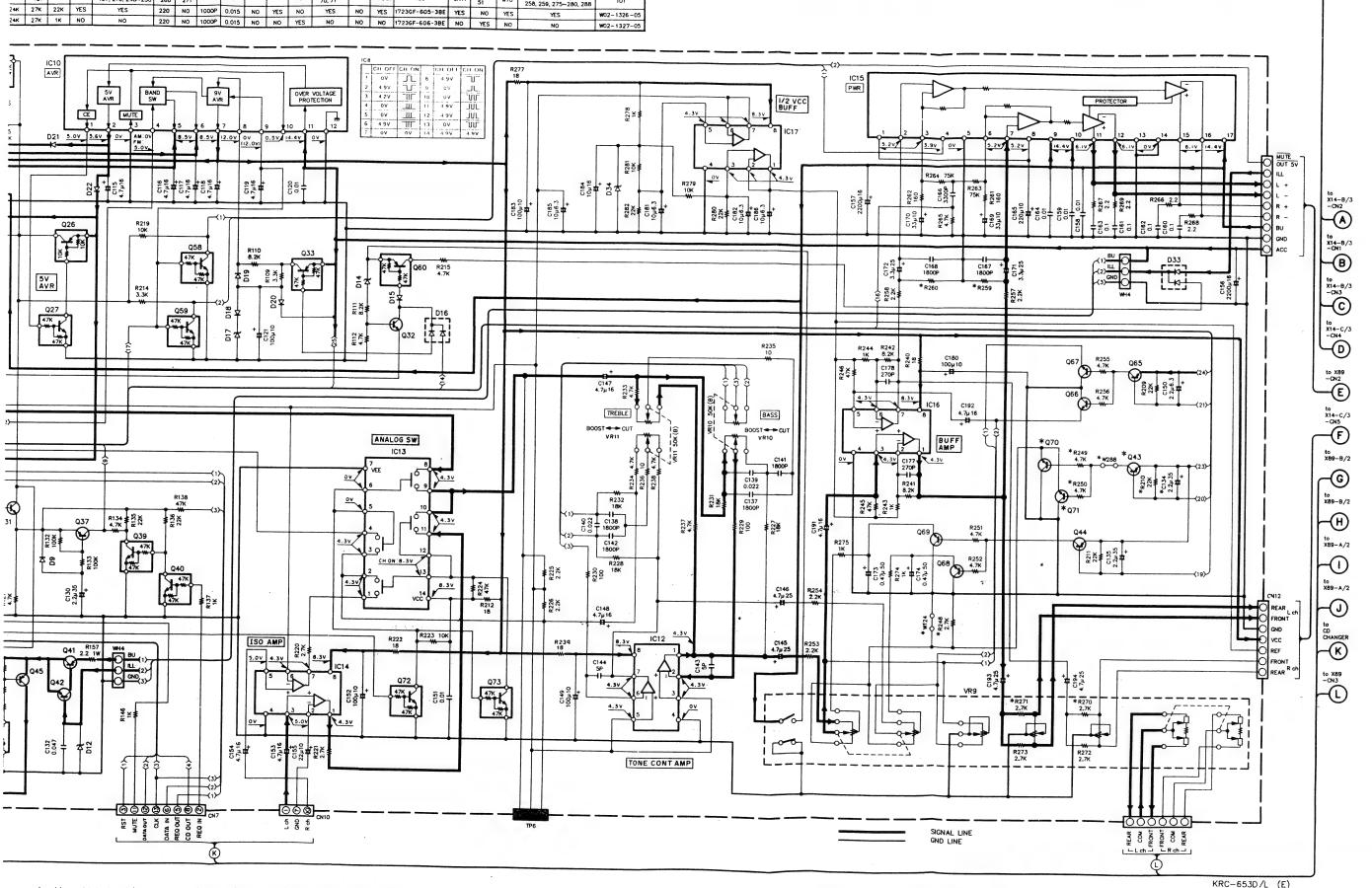


ors and capacitors.

31

32





neasured with a high impedance y vary slightly due to variations uments or/and units.

R100 R120 R174 R187 R188, 189, 196 R279 R270 C92, 93 C94, 95 C96 C134 Q19, 20 Q43, 51, 52 D27 D28, 29

IC9

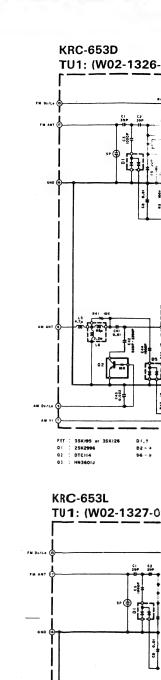
W16~18 51 W70 W74, 121, 124, 154, 155 258, 259, 275~280, 288

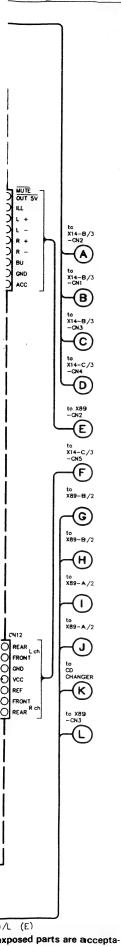
Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügig. CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).

A Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance

measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.



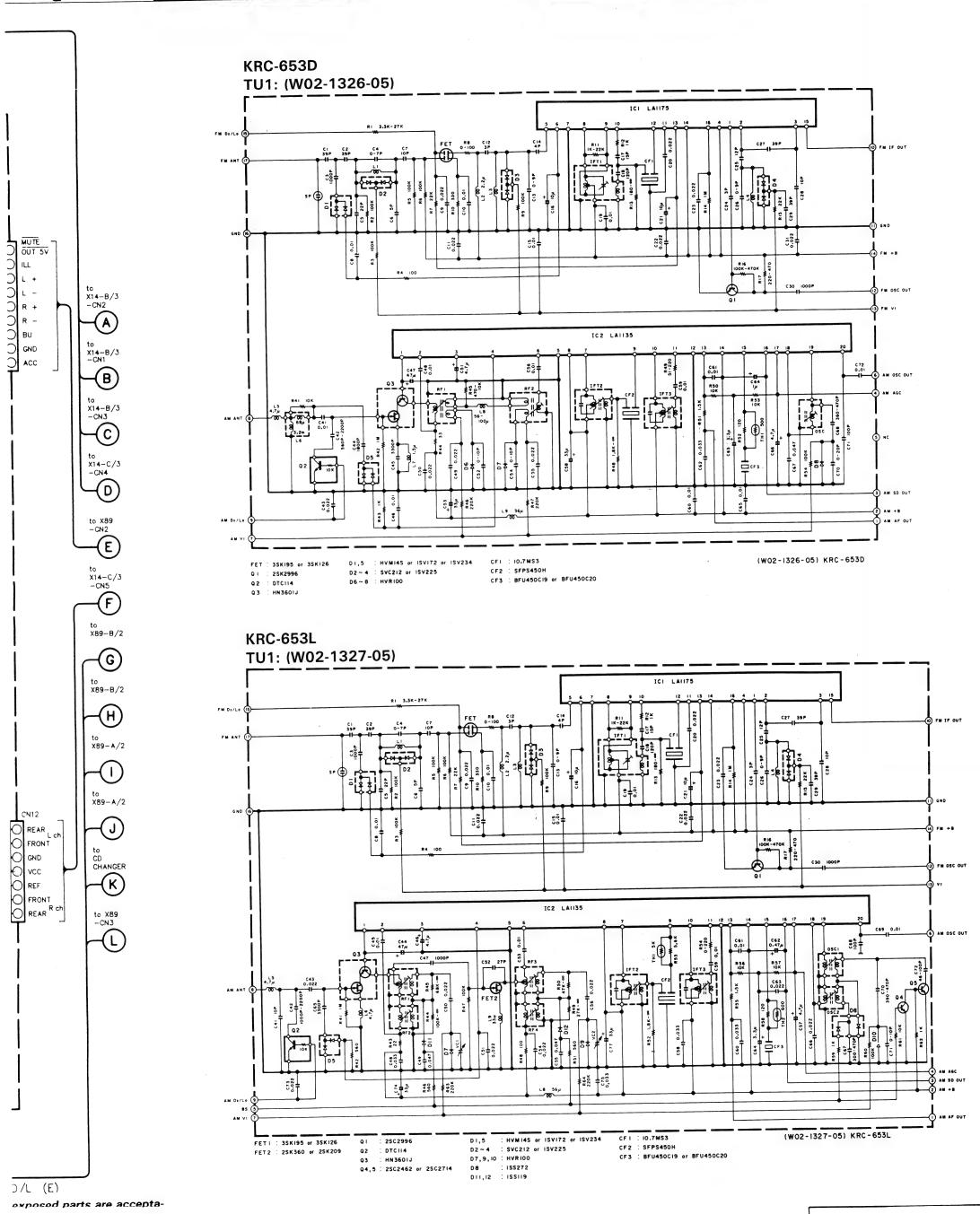


KRC-653D
TU1: (W02-1326-05)

KRC-653L
TU1: (W02-1327-05)

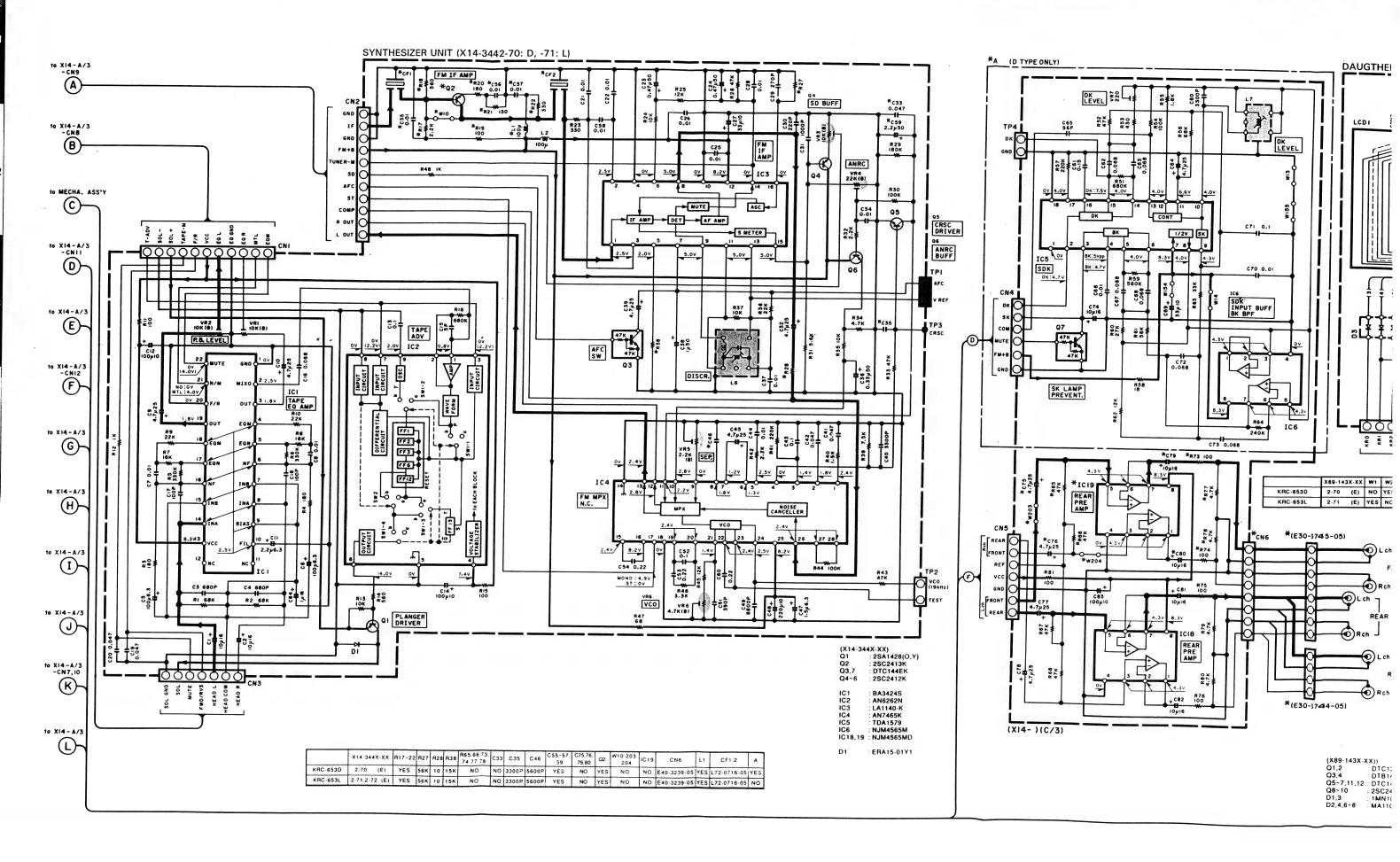
t) before the appliance is

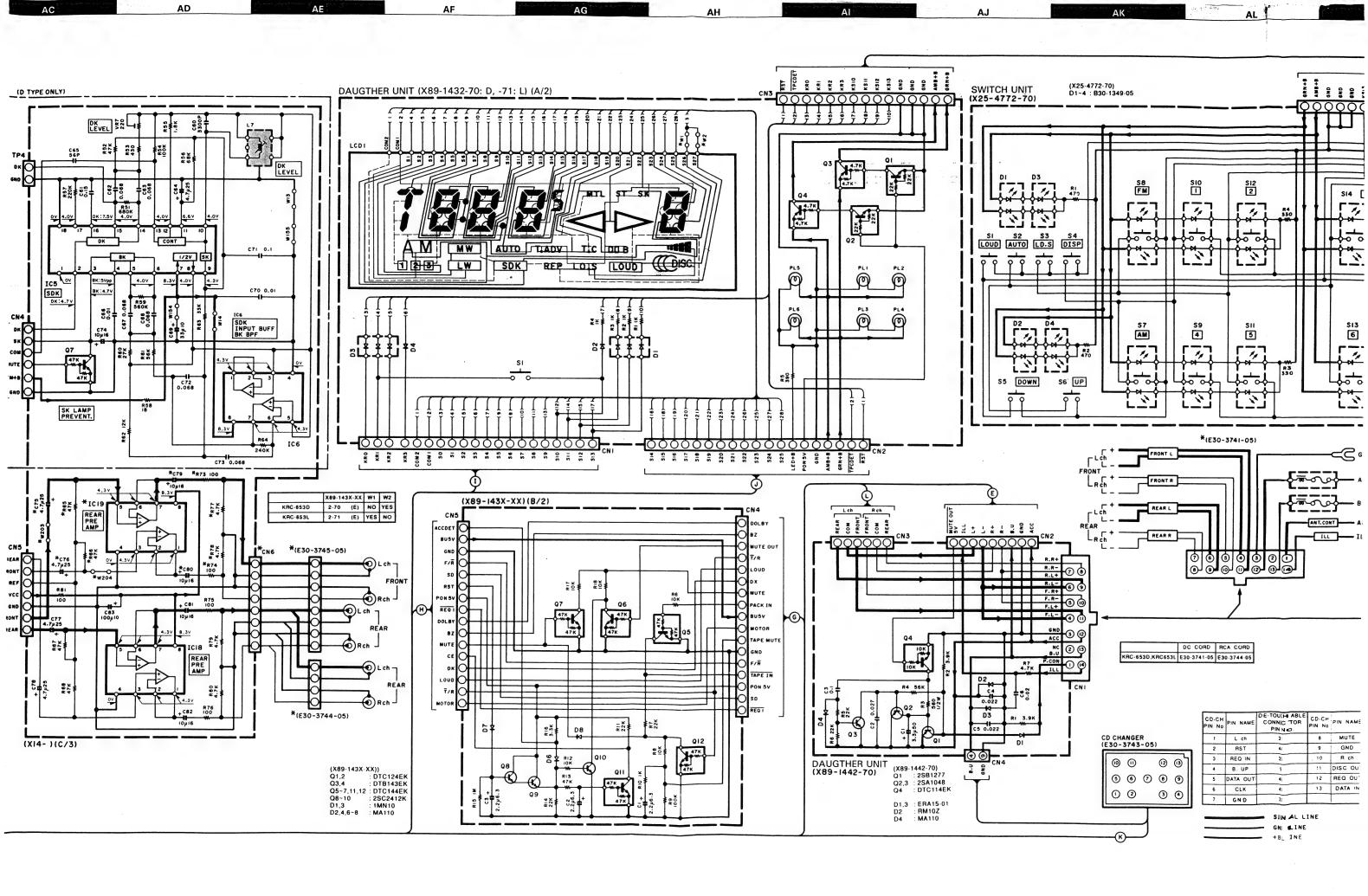


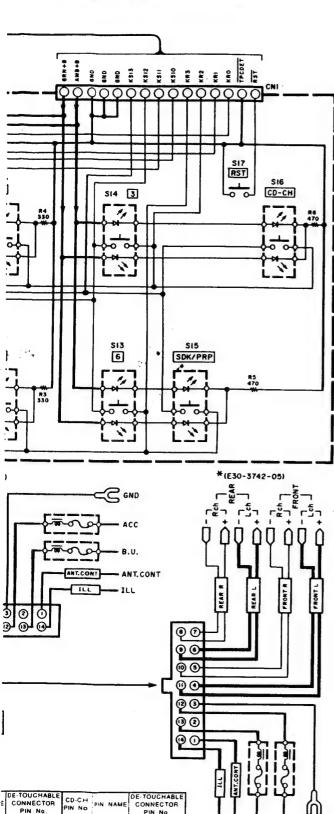


iit) before the appliance is









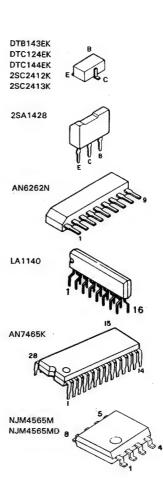
31 8 MUTE 32 44 9 GND 30 35 10 R ch 42 9 11 DISC OUT 43 46 12 REQ OUT 45 13 DATA IN 34

KRC-653D/L(E)

ANT.CONT

SIGNAL LINE GNO LINE

+B LINE



DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

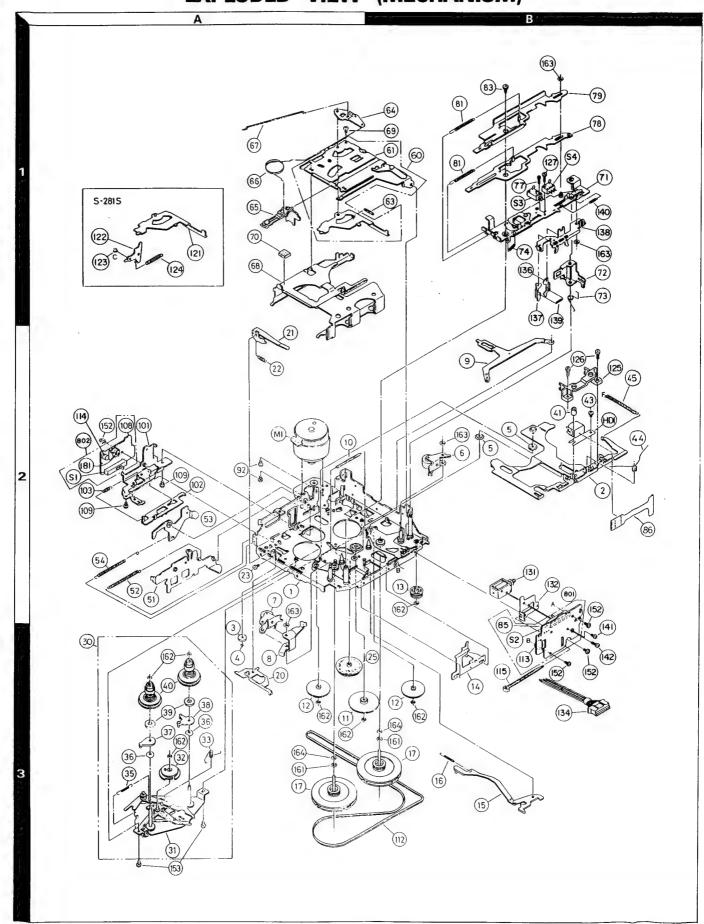
Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügig.

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refeto parts list). Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance in returned to the customer.

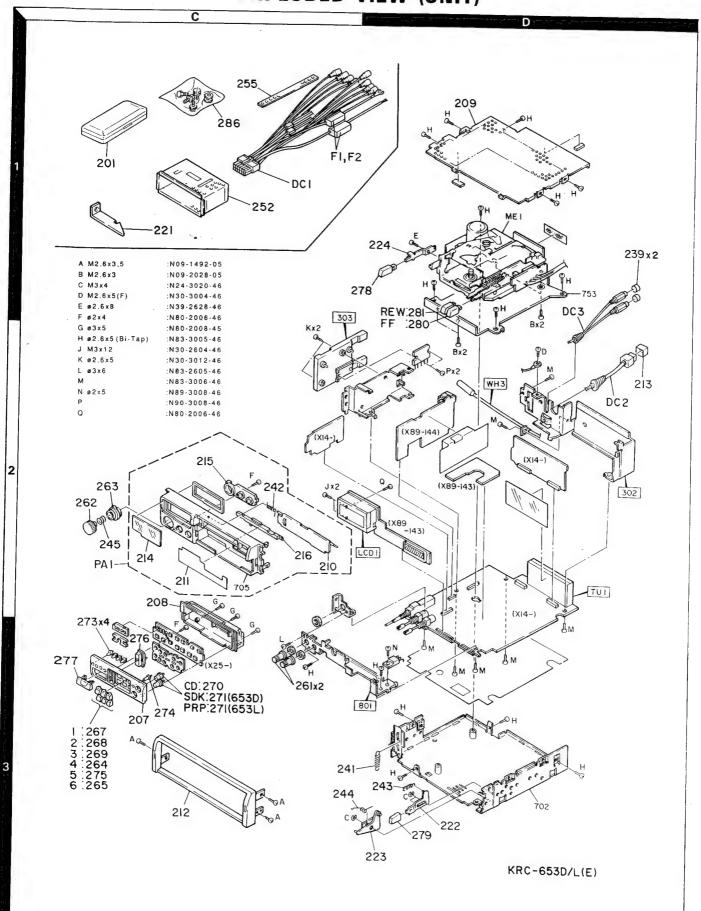
Y36-1502-70



EXPLODED VIEW (MECHANISM)



EXPLODED VIEW (UNIT)



42

PARTS LIST

× New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnes dans le Parts No. ne sont pas fournis.

Telle ohne Parts No. werden nicht geliefert.

Ref. No.	Address		Parts No.	Description		Re- mark
参照番号	位 置	Parts 新	部品番号	部品名/規格		備考
		l	KRC	653D/L		
201 207 207 208 209	1C 3C 3C 2C 1D	* * * *	A02-1415-02 A29-0704-01 A29-0705-01 A46-1205-01 A52-0642-02	PLASTIC CABINET PANEL (KRC-653D) PANEL (KRC-653L) REAR COVER TOP COVER	D L	
210 PA1	2C 2C	*	A53-1540-03 A20-7765-03	CASSETTE LID PANEL ASSY		
211 212 213 214 215	2C 3C 2D 2C 2C	* * *	B03-3003-04 B07-2029-02 B09-0062-05 B10-1461-03 B19-0895-03	DRESSING PLATE ESCUTCHEON CAP FRONT GLASS LIGHTING BOARD		
216 - - -	20	* *	B19-0901-03 B46-0100-20 B46-0182-04 B46-0606-04 B64-0154-00	LIGHTING BOARD WARRANTY CARD ID CARD (KRC-653D) ID CARD (KRC-653L) INSTRUCTION (FRA. GER.)	D L D	
-		*	B64-0155-00 B64-0156-00	INSTRUCTION (ENG. FRA.) INSTRUCTION (DUT. ITA. SPA.)	L	
221 222 223 224 ME1	1 C 3 D 3 D 1 D 1 D	* * * * *	D10-2740-04 D10-2742-04 D10-2743-04 D10-2744-04 D40-1032-15	LEVER LEVER LEVER LEVER LEVER CASSETTE MECHANISM ASSY		
DC1 DC2 DC3	1 C 2 D 1 D	* * *	E30-3741-05 E30-3743-05 E30-3744-05	DC CORD (critical comp.) CORD WITH CONNECTOR CORD WITH, PLUG		
239 F1 F2	1 D 1 C 1 C		F29-0049-05 F05-7521-05 F06-3026-05	INSULATING COVER FUSE (7.5A) ACC FUSE (3A) B.U.		
241 242 243 244 245	3D 2C 3D 3D 2C	* * *	G01-2040-04 G01-2371-04 G01-2606-04 G01-2607-04 G01-2612-04	EXTENSION SPRING TORSION COIL SPRING EXTENSION SPRING TORSION COIL SPRING COMPRESSION SPRING		
- - - -		* * * *	H01-9346-04 H01-9347-04 H03-3407-04 H03-3408-04 H10-4402-02	ITEM CARTON CASE (KRC-653D) ITEM CARTON CASE (KRC-653L) OUTER CARTON CASE (KRC-653D) OUTER CARTON CASE (KRC-653L) POLYST. FOAMED FIXTURE (BOTTOM	D L D L	
- - - -		*	H10-4408-02 H25-0329-04 H25-0334-04 H25-0336-04	POLYST. FOAMED FIXTURE (UP) PROTECTION BAG (280X450X0.03) PROTECTION BAG (125X250X0.03) PROTECTION BAG (170X250X0.03)		
252 255	1 C 1 C	*	J21-7088-51 J54-0059-04	MOUNTING HARDWARE STAY		
261 262 263 264 265	3C 2C 2C 3C 3C	*	K23-1011-04 K23-1012-03 K23-1013-13 K24-0998-03 K24-1000-03	KNOB (BASS, TREBLE) KNOB (VOL) KNOB (FAD) KNOB (4) KNOB (6)		

E: Scandinavia & Europe K: USA

W:Europe P: Canada

D: KRC-653D L: KRC-653L

Y: PX(Far East, Hawaii) T: England Y: AAFES(Europe)

X: Australia

M: Other Areas

PARTS LIST

* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnes dans le Parts No. ne sont pas fournis.

Telle ohne Parts No. werden nicht geliefert.

Ref. No.	Addres			Description	Desti- nation	Re-
参照番号	号 位 置	Parts 新	部品番号	部品名/規格		marl
267 268 269 270 271	30 30 30 30 30	* * * *	K24-1001-03 K24-1002-03 K24-1003-03 K24-1017-03 K24-1018-03	KNOB (1) KNOB (2) KNOB (3) KNOB (CD) KNOB (SDK) KRC-653D	D	
271 273 274 275 276	3C 3C 3C 3C 3C	* * * *	K24-1019-03 K24-1020-04 K24-1021-04 K24-1059-03 K25-0608-03	KNOB (PRP) KRC-653L KNOB (ILLUM ,AUTO ,AME ,CLK) KNOB (RESET) KNOB (5) KNOB (FM/AM)	L	
277 278 279 280 281	3C 1D 3D 1D	* * *	K25-0609-03 K27-3525-04 K27-3526-04 K27-3527-04 K27-3528-04	KNOB (TUNE) KNOB (EJECT) KNOB (LEVER for Detach. Panel) KNOB (FF) KNOB (REW)		
286 A B C D	1C 3C 1D,2D 3D 2D	*	N99-1570-05 N09-1492-05 N09-2028-05 N24-3020-46 N30-3004-46	SCREW SET MACHINE SCREW (2.6X3.5, +\") MACHINE SCREW (M3X4) E TYPE RETAINING RING(2711) PAN HEAD MACHIN SCREW		
E F G H	1D 2C,3C 2C,3C 1D,3D		N39-2628-46 N80-2006-46 N80-2008-45 N83-3005-46	PAN HEAD MACHIN SCREW PAN HEAD TAPTITE SCREW PAN HEAD TAPTITE SCREW PAN HEAD TAPTITE SCREW		
			T	(X14-3442-70: D, -71: L)		
302	2D	*	A23-5049-03	REAR PANEL		
C1 ,2 C3 ,4 C5 ,6 C7 ,8 C9 ,10			CE04NW1C100M CK73FB1H681K CE04NW0J101M CK73FB1H103K CE04NW1E4R7M	ELECTRO		
C11 C12 C13 C14 C15			C92-0005-05 CE04NW1A101M CK73EB1E104K CE04NW1A101M CC73FCH1H050C	ELECTR® 2.2UF 6.3WV ELECTR® 100UF 10WV CHIP C 0.10UF K ELECTR® 100UF 10WV CHIP C 5PF C	-	
C16 C17 ,18 C19 ,20 C21 ,22 C23 ,24			CK73EB1E683K CC73FCH1H101J CK73FB1E473KTA CK73FB1H103K CE04NW1HR47M	CHIP C 0.068UF K CHIP C 100PF J CHIP C 0.047UF K CHIP C 0.010UF K ELECTRO 0.47UF 50WV		
C25 ,26 C27 C28 C29 C30			CK73FB1H103K CE04NW1A330M CK73FB1H103K CK73FB1H271K CC73FCH1H221J	CHIP C 0.010UF K ELECTRO 33UF 10WV CHIP C 0.010UF K CHIP C 270PF K CHIP C 220PF J		
C31 C32 C34 C35 C36			CK73FB1H102K CE04NW1E4R7M CK73FB1H103K CK73FB1H332K CE04NW1HR33M	CHIP C 1000PF K ELECTRO 4.7UF 25WV CHIP C 0.010UF K CHIP C 3300PF K ELECTRO 0.33UF 50WV		
C37 C38 C39			CK73FB1H103K CE04NW1H010M CE04NW1E4R7M	CHIP C 0.010UF K ELECTOR 1.0UF 50WV ELECTRO 4.7UF 25WV		

E: Scandinavia & Europe K: USA

Y: AAFES(Europe)

W:Europe P: Canada

Y: PX(Far East, Hawaii) T: England

M: Other Areas

X: Australia

D: KRC-653D L: KRC-653L

PARTS LIST

* New Parts

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Ref. No.	Address			ts No.		Description		Desti-	Re-
参照番号	位 置	Parts 新		番号	部	品名/規	格	nation 仕 向	mark
C40 C41 ,42 C43 C44 C45			CK73FB1 CK73FB1 CK73EB1 CK73FB1 CE04NW1	E473KTA E104K H103K	CHIP C CHIP C CHIP C CHIP C ELECTRO	3300PF 0.047UF 0.10UF 0.010UF 4.7UF	K K K K 25WV		
C46 C47 C48 C49 C50			CK73FB1 C92-050 CE04DW1 CK73FB1 C93-002	1-05 A221M H682K	CHIP C CHIP-TAN ELECTRO CHIP C CERAMIC	5600PF 1.5UF 220UF 6800PF 0.22UF	K 6.3WV 10WV K K		
C51 C52 C53 ,54 C55 -58 C59			CQ92P2A CK73EB1 C93-002 CK73FB1 CE04NW1	E104K 5-05 H103K	MYLAR CHIP C CERAMIC CHIP C ELECTRO	390PF 0.10UF 0.22UF 0.010UF 2.2UF	J K K K 50WV		
C60 C61 C62 ,63 C64 C65			CQ93AP2 CK73DB11 C91-205 CE04DW11 CC73FCH	H154K 0-05 E4R7M	POLYPRO CHIP C CERAMIC ELECTRO CHIP C	3300PF 0.15UF 0.068UF 4.7UF 56PF	J K Z 25WV J	E E E E	
C66 C67 ,68 C69 C70 C71			CK73FB1F CK73EB1F CE04DW17 CK73FB1F CK73EB1F	E683K A330M H103K	CHIP C CHIP C ELECTRO CHIP C CHIP C	0.010UF 0.068UF 33UF 0.010UF 0.10UF	K K 10WV K K	EEEE	
C72 ,73 C74 C77 ,78 C81 ,82 C83			CK73EB1E CE04DW1C CE04DW1C CE04DW1C	0100M 04R7M 0100M	CHIP C ELECTRO ELECTRO ELECTRO ELECTRO	0.068UF 10UF 4.7UF 10UF 100UF	K 16WV 25WV 16WV 10WV	E	
C84 C91 C92 ,93 C94 ,95 C97 -100			C92-0004 CE04DW11 CK73FB11 CK73FB11 C90-2608	H2R2M H102K H153K	ELECTRO ELECTRO CHIP C CHIP C ELECTRO	1.0UF 2.2UF 1000PF 0.015UF 1.0UF	16WV 50WV K K 50WV		
C101 C102 C103 C104,105 C106			CE04CW1A CE04CW1A CK73FB1F CK73EB1E CK73EB1E	1101M 1103K 1104K	ELECTRO ELECTRO CHIP C CHIP C CHIP C	22UF 100UF 0.010UF 0.10UF 0.068UF	10WV 10WV K K K		
0107 0108 0109 0111 0112			CK73FB1H CE04DW1A CK73EB1E CK73EB1H CE04CW1A	330M 104K 1473K	CHIP C ELECTRO CHIP C CHIP C ELECTRO	0.010UF 33UF 0.10UF 0.047UF 100UF	K 10WV K K 10WV		
0113 0114 0115-119 0120 0121		* (CK73FB1H CK73FB1H C90-2595 CK73FB1H CE04CW1A	103K -05 103K	CHIP C CHIP C ELECTRO CHIP C ELECTRO	0.010UF 0.010UF 4.7UF 0.010UF 100UF	K K 16WV K 10WV		
2122 2123,124 2125,126 2127 2128,129			090-2525 0K73FB1H 0E04CW1A 0K73FB1H 0C73FCH1	103K 101M 103K	NP-ELECT CHIP C ELECTRO CHIP C CHIP C	2.2UF 0.010UF 100UF 0.010UF 22PF	35WV K 10WV K J		

E: Scandinavia & Europe K: USA

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♠ indicates safety critical components.

D: KRC-65 3D L: KRC-653L

* New Parts

PARTS LIST

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Ref. No.	Address				Description		Desti-	Re-
参照番号	位 置	Parts 新	部品番号	部	品名/規	格	nation 仕 向	marks 備考
C130 C131 C132 C133 C134		*	C90-2600-05 CK73FB1H103K CK73FB1E473KTA CK73FB1H103K C90-2600-05	ELECTRO CHIP C CHIP C CHIP C ELECTRO	2.2UF 0.010UF 0.047UF 0.010UF 2.2UF	35WV K K K 35WV	D	
C135 C136 C137,138 C139,140 C141,142		*	C90-2600-05 C93-0025-05 CK73FB1H182K CK73FB1H223KTA CK73FB1H182K	ELECTR® CERAMIC CHIP C CHIP C CHIP C	2.2UF 0.22UF 1800PF 0.022UF 1800PF	35 W V K K K K		
C143,144 C145,146 C147,148 C149 C150		*	CC73FCH1H050C CE04NW1E4R7M C90-2595-05 CE04CW1A101M C92-0005-05	CHIP C ELECTRO ELECTRO ELECTRO ELECTRO	5PF 4.7UF 4.7UF 100UF 2.2UF	C 25WV 16WV 10WV 6.3WV		
C151 C152 C153,154 C155 C156		*	CK73FB1H103K CE04CW1A101M C90-2595-05 CE04CW1A220M CE04DW1C222M	CHIP C ELECTRO ELECTRO ELECTRO ELECTRO	0.010UF 100UF 4.7UF 22UF 2200UF	K 10WV 16WV 10WV 16WV		
C157 C158,159 C160-163 C164 C165			C90-2657-05 CK73FB1H103K CK73EB1E104K CK73FB1H103K C90-2563-05	ELECTRO CHIP C CHIP C CHIP C ELECTRO	2200UF 0.010UF 0.10UF 0.010UF 220UF	16WV K K K 10WV		
C166 C167,168 C169,170 C171,172 C173,174		*	CK73FB1H332K CK73FB1H182K C90-2544-05 C90-2598-05 CE04NW1HR47M	CHIP C CHIP C ELECTRO ELECTRO ELECTRO	3300PF 1800PF 33UF 3.3UF 0.47UF	K K 10WV 25WV 50WV		
0177,178 0179 0180 0181,182		*	CK73FB1H271K CK73FB1H103K CE04CW1A101M C90-2592-05 CE04CW1A101M	CHIP C CHIP C ELECTRO ELECTRO ELECTRO	270PF 0.010UF 100UF 10UF 100UF	K K 10WV 6.3WV 10WV		
2184 2185,186 2191,192 2193,194		* *	CE04NW1C100M C90-2592-05 C90-2595-05 CE04NW1E4R7M	ELECTRO ELECTRO ELECTRO ELECTRO	10UF 10UF 4.7UF 4.7UF	16WV 6.3WV 16WV 25WV		
/нз	2D	*	E30-3783-05	CORD WITH PL	UG			
	1C :	* [F01-1392-03	HEAT SINK				
H1 -3			J19-2826-05	HOLDER				
F1 ,2 1 ,2 3 ,4 5		[[[-72-0716-05 -40-1011-17 -40-4791-17 -40-1011-17 -30-0462-15	CERAMIC FILTI SMALL FIXED SMALL FIXED SMALL FIXED FM IFT	INDUCTOR INDUCTOR (4	.7UH,K)		
7			.39-0156-05 .77-1163-05	TRAP COIL CRYSTAL RESON	NATOR		D	
	2 D 2 C 3 C	N	N30-2604-46 N30-3012-46 N83-2605-46	PAN HEAD MACH PAN HEAD MACH PAN HEAD TAP	HIN SCREW			

E: Scandinavia & Europe K: USA

P: Canada W:Europe

Y: PX(Far East, Hawaii) T: England

M: Other Areas

D: KRC-653D L: KRC-653L 46866A)

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Ref. No.	Address No		Description		Re− nark:
参照番号		·ts 新品番号	部品名/規格	仕 向信	
	2D,3D 3D 2D	N83+3006-46 N89-3008-46 N90-3008-46	PAN HEAD TAPTITE SCREW BINDING HEAD TAPTITE SCREW TP HEAD MACHINE SCREW		
R1 ,2 R3 ,4 R5 ,6 R7 ,8 R9 ,10		RK73FB2A683J RK73FB2A181J RK73FB2A334J RK73FB2A163J RK73FB2A223J	CHIP R 68K J 1/10W CHIP R 180 J 1/10W CHIP R 330K J 1/10W CHIP R 16K J 1/10W CHIP R 22K J 1/10W		
R11 R12 R13 R14 R15		RK73FB2A101J RK73FB2A102J RK73FB2A103J R92-2018-05 RK73FB2A101J	CHIP R 100 J 1/10W CHIP R 1.0K J 1/10W CHIP R 10K J 1/10W CHIP R 560 J 1/2W CHIP R 100 J 1/10W		
R16 R17 R18 R19 R20		RK73FB2A684J RK73FB2A222J RK73FB2A561J RK73FB2A101J RK73FB2A181J	CHIP R 680K J 1/10W CHIP R 2.2K J 1/10W CHIP R 560 J 1/10W CHIP R 100 J 1/10W CHIP R 180 J 1/10W		
R21 R22 ,23 R24 R25 R26		RK73FB2A131J RK73FB2A331J RK73FB2A103J RK73FB2A123J RK73FB2A473J	CHIP R 130 J 1/10W CHIP R 330 J 1/10W CHIP R 10K J 1/10W CHIP R 12K J 1/10W CHIP R 47K J 1/10W		
R27 R28 R29 R30 R31		RK73FB2A563J RK73FB2A100J RK73FB2A184J RK73FB2A104J RK73FB2A562J	CHIP R 56K J 1/10W CHIP R 10 J 1/10W CHIP R 180K J 1/10W CHIP R 100K J 1/10W CHIP R 5.6K J 1/10W		
R32 R33 R34 R35 R36		RK73FB2A222J RK73FB2A473J RK73FB2A472J RK73FB2A103J RK73FB2A223J	CHIP R 2.2K J 1/10W CHIP R 47K J 1/10W CHIP R 4.7K J 1/10W CHIP R 10K J 1/10W CHIP R 22K J 1/10W		
R37 R38 R39 R40 R41		RK73FB2A103J RK73FB2A153J RK73FB2A752J RK73FB2A152J RK73FB2A224J	CHIP R 10K J 1/10W CHIP R 15K J 1/10W CHIP R 7.5K J 1/10W CHIP R 1.5K J 1/10W CHIP R 220K J 1/10W		
R42 R43 R44 R45 R46		RK73FB2A222J RK73FB2A473J RK73FB2A104J RK73FB2A123J RK73FB2A332J	CHIP R 2.2K J 1/10W CHIP R 47K J 1/10W CHIP R 100K J 1/10W CHIP R 12K J 1/10W CHIP R 3.3K J 1/10W		
R47 R48 R51 R52 R53		RK73FB2A680J RK73FB2A102J RK73FB2A684J RK73FB2A473J RK73FB2A431J	CHIP R 68 J 1/10W CHIP R 1.0K J 1/10W CHIP R 680K J 1/10W CHIP R 47K J 1/10W CHIP R 430 J 1/10W	D D	
R54 R55 R56 R57 R58		RK73FB2A104J RK73FB2A182J RK73FB2A683J RK73FB2A224J RK73FB2A180J	CHIP R 100K J 1/10W CHIP R 1.8K J 1/10W CHIP R 68K J 1/10W CHIP R 220K J 1/10W CHIP R 18 J 1/10W	D D D D	
R59		RK73FB2A564J	CHIP R 560K J 1/10W	D	

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P: Canada W:Europe

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参照番号	位	ı	Parts 新	部品番号	部	品名/規	格		nation 仕 向	mark 備考
R60 R61 R62 R63 R64				RK73FB2A273J RK73EB2B563J RK73FB2A123J RK73FB2A333J RK73FB2A244J	CHIP R CHIP R CHIP R CHIP R CHIP R	27K 56K 12K 33K 240K	j j j	1/10W 1/8W 1/10W 1/10W 1/10W	D D D D	
R67 ,68 R75 ,76 R79 ,80 R81 R92				RK73FB2A473J RK73FB2A101J RK73FB2A472J RK73FB2A101J RK73FB2A223J	CHIP R CHIP R CHIP R CHIP R CHIP R	47K 100 4.7K 100 22K	J J J	1/10W 1/10W 1/10W 1/10W 1/10W		
R93 R94 R95 R97 R98	·			RK73FB2A102J RK73FB2A223J RK73FB2A472J RK73FB2A102J RK73FB2A333J	CHIP R CHIP R CHIP R CHIP R CHIP R	1.0K 22K 4.7K 1.0K 33K	J J J J	1/10W 1/10W 1/10W 1/10W 1/10W		
R99 R100 R101 R102-106 R107				RK73EB2B102J RK73FB2A180J RK73FB2A243J RK73FB2A473J RK73FB2A103J	CHIP R CHIP R CHIP R CHIP R CHIP R	1.0K 18 24K 47K 10K	J J J	1/8W 1/10W 1/10W 1/10W 1/10W		
R108 R109 R110,111 R112 R114				RK73FB2A102J RK73FB2A332J RK73FB2A622J RK73FB2A472J RK73FB2A180J	CHIP R CHIP R CHIP R CHIP R CHIP R	1.0K 3.3K 8.2K 4.7K 18	J J J	1/10W 1/10W 1/10W 1/10W 1/10W		
R115,116 R117,118 R120,121 R122,123 R124				RK73FB2A162J RK73FB2A102J RK73FB2A273J RK73FB2A472J RK73FB2A183J	CHIP R CHIP R CHIP R CHIP R CHIP R	1.6K 1.0K 27K 4.7K 18K	J J J	1/10W 1/10W 1/10W 1/10W 1/10W		
R125 R126 R127 R128 R129				RK73FB2A102J RK73FB2A332J RK73FB2A472J RK73FB2A101J RK73FB2A152J	CHIP R CHIP R CHIP R CHIP R CHIP R	1.0K 3.3K 4.7K 100 1.5K	J J J J	1/10W 1/10W 1/10W 1/10W 1/10W		
R130 R131 R132,133 R134 R135,136				RK73EB2B471J RK73FB2A272J RK73FB2A104J RK73FB2A472J RK73FB2A223J	CHIP R CHIP R CHIP R CHIP R	470 2.7K 100K 4.7K 22K	J J J J	1/8W 1/10W 1/10W 1/10W 1/10W		
R137 R138 R139 R140 R141-143				RK73FB2A102J RK73FB2A473J RK73FB2A101J RK73FB2A473J RK73FB2A473J	CHIP R CHIP R CHIP R CHIP R CHIP R	1.0K 47K 100 47K 4.7K	J J J	1/10W 1/10W 1/10W 1/10W 1/10W		
R144 R145 R146 R147 R148				RK73FB2A101J RK73FB2A472J RK73FB2A102J RK73EB2B102J RK73FB2A101J	CHIP R CHIP R CHIP R CHIP R CHIP R	100 4.7K 1.0K 1.0K 100	J J J J	1/10W 1/10W 1/10W 1/10W 1/8W 1/10W		
R149-151 R152,153 R154 R155,156 R157			*	RK73FB2A103J RK73FB2A102J RK73FB2A103J RK73FB2A102J R92-2104-05	CHIP R CHIP R CHIP R CHIP R CHIP R	1 OK 1. OK 1 OK 1. OK 2. 2	J J J J	1/10W 1/10W 1/10W 1/10W 1W		

E: Scandinavia & Europe K: USA

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参照番号	位 置 新		部	品名/規	格	nation marks 仕 向 備考
R158 R159 R160 R161 R162		RK73FB2A101J RK73FB2A223J RK73FB2A103J RK73FB2A223J RK73FB2A393J	CHIP R CHIP R CHIP R CHIP R CHIP R	100 22K 10K 22K 39K	J 1/10W J 1/10W J 1/10W J 1/10W J 1/10W	
R164 R165 R166 R167-170 R171,172		RK73FB2A223J RK73EB2B472J RK73FB2A472J RK73FB2A102J RK73EB2B102J	CHIP R CHIP R CHIP R CHIP R CHIP R	22K 4.7K 4.7K 1.0K 1.0K	J 1/10W J 1/8W J 1/10W J 1/10W J 1/8W	
R173 R174 R174 R175 R176		RK73EB2B223J RK73EB2B102J RK73EB2B223J RK73FB2A472J RK73FB2B472J	CHIP R CHIP R CHIP R CHIP R CHIP R	22K 1.0K 22K 4.7K 4.7K	J 1/8W J 1/8W J 1/8W J 1/10W J 1/8W	L D
R178 R179 R180 R181-185 R186		RK73EB2A103J RK73FB2A222J RK73FB2A472J RK73FB2A102J RK73EB2B102J	CHIP R CHIP R CHIP R CHIP R CHIP R	10K 2.2K 4.7K 1.0K 1.0K	J 1/10W J 1/10W J 1/10W J 1/10W J 1/8W	
R187 R188,189 R190-193 R194 R195		RK73EB2B102J RK73FB2AB24J RK73FB2A472J RK73FB2A473J RK73FB2A472J	CHIP R CHIP R CHIP R CHIP R CHIP R	1.0K 820K 4.7K 47K 4.7K	J 1/8W J 1/10W J 1/10W J 1/10W J 1/10W	D D
R196,197 R198 R199,200 R203 R204		RK73FB2A473J RK73FB2A473J RK73FB2A102J RK73FB2A334J RK73FB2A103J	CHIP R CHIP R CHIP R CHIP R CHIP R	47K 47K 1.0K 330K 10K	J 1/10W J 1/10W J 1/10W J 1/10W J 1/10W	D
R205 R207 R208 R209 R210		RK73FB2A105J RK73FB2A103J RD14DB2H102J RK73FB2A223J RK73FB2A223J	CHIP R CHIP R SMALL-RD CHIP R CHIP R	1.0M 10K 1.0K 22K 22K	J 1/10W J 1/10W J 1/2W J 1/10W J 1/10W	D
R211 R212 R213 R214 R215		RK73FB2A223J RK73FB2A180J RK73EB2B332J RK73FB2A332J RK73FB2A472J	CHIP R CHIP R CHIP R CHIP R CHIP R	22K 18 3.3K 3.3K 4.7K	J 1/10W J 1/10W J 1/8W J 1/10W J 1/10W	
R219 R220,221 R222 R223 R224		RK73EB2B103J RK73FB2A272J RK73FB2A180J RK73FB2A103J RK73FB2A473J	CHIP R CHIP R CHIP R CHIP R CHIP R	10K 2.7K 18 10K 47K	J 1/8W J 1/10W J 1/10W J 1/10W J 1/10W	
R225,226 R227,228 R229,230 R231,232 R233		RK73FB2A222J RK73FB2A183J RK73FB2A101J RK73FB2A183J RK73EB2B472J	CHIP R CHIP R CHIP R CHIP R CHIP R	2.2K 18K 100 18K 4.7K	J 1/10W J 1/10W J 1/10W J 1/10W J 1/8W	
R234 R235 R236 R237 R238		RK73FB2A472J RK73EB2B100J RK73FB2A100J RK73EB2B472J RK73FB2A472J	CHIP R CHIP R CHIP R CHIP R CHIP R	4.7K 10 10 4.7K 4.7K	J 1/10W J 1/8W J 1/10W J 1/8W J 1/10W	

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参照番号	位 置	Parts 新	部品番号	部品名/	規格		nation 仕 向	marks 備考
R239 R241,242 R243,244 R245,246 R248			RK73FB2A180J RK73FB2A822J RK73FB2A102J RK73FB2A473J RK73FB2A272J	CHIP R 18 CHIP R 8.2K CHIP R 1.0K CHIP R 47K CHIP R 2.7K	J J J J	1/10W 1/10W 1/10W 1/10W 1/10W	D	
R249,250 R251,252 R253,254 R255,256 R257,258			RK73FB2A472J RK73FB2A472J RK73FB2A222J RK73FB2A472J RK73FB2A472J RK73FB2A222J	CHIP R 4.7K CHIP R 4.7K CHIP R 2.2K CHIP R 4.7K CHIP R 2.2K	J J J	1/10W 1/10W 1/10W 1/10W 1/10W	D	
R259,260 R261,262 R263,264 R265 R266-269			RK73FB2A221J RK73EB2B161J RK73EB2B753J RK73FB2A472J RK73EB2B2R2J	CHIP R 220 CHIP R 160 CHIP R 75K CHIP R 4.7K CHIP R 2.2	J J J	1/10W 1/8W 1/8W 1/10W 1/8W		
R272,273 R274,275 R277 R278 R279			RK73EB2B272J RK73FB2A102J RK73FB2A180J RK73FB2A102J RK73FB2A103J	CHIP R 2.7K CHIP R 1.0K CHIP R 18 CHIP R 1.0K CHIP R 1.0K	J J J J	1/8W 1/10W 1/10W 1/10W 1/10W		
R 280 R 281 R 282 VR1 -3 VR4			RK73FB2A223J RK73FB2A103J RK73FB2A223J R12-3100-05 R12-3101-05	CHIP R 22K CHIP R 10K CHIP R 22K TRIMMING POT.(10K 3 TRIMMING POT.(22K 3		1/10W 1/10W 1/10W		
VR5 VR6 VR7 VR8 VR9		*	R12-1071-05 R12-1073-05 R12-0096-05 R12-3100-05 R24-0604-05	TRIMMING POT. (2.2K TRIMMING POT. (4.7K TRIMMING POT. (220 TRIMMING POT. (10K 2) POTENTIOMETER (80X2,	タテ) タテ) !テ))	D	
VR10,11 W1 -9 W11 -15 W11,12 W15 -69		*	R10-4644-05 R92-2053-05 R92-2053-05 R92-2053-05 R92-2053-05	POTENTIOMETER CHIP R 0 CHIP R 0 CHIP R 0 CHIP R 0	J J J	1/8W 1/8W 1/8W 1/8W	0 11	
W19 -50 W52 -88 W71 -73 W75 -88 W102-120			R92-2053-05 R92-2053-05 R92-2053-05 R92-2053-05 R92-2052-05	CHIP R O]]] J	1/8W 1/8W 1/8W 1/8W 1/10W	D D L	
W 102-123 W 122-127 W 125-127			R92-2052-05 R92-2052-05 R92-2052-05	CHIP R O CHIP R O	J J J	1/10W 1/10W 1/10W	D L D	
D1 D6 ,7 D6 ,7 D8			ERA15-01Y1 MA110 1SS355 DAP202K MA110	DIODE DIODE DIODE DIODE DIODE				
D 9 D 10 D 11 D 12 D 14			1SS355 DAN202K 1SS355 MA8110-L MA8068-M	DIODE DIODE DIODE ZENER DIODE ZENER DIODE				
D 15			1SS133	DIODE				

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参照番号	位 置	Parts 新	部品番号	部品名/規格	nation made to find the first term of the first	arks 蕭考
D16 D17 D18 -22 D18 -22 D23 -26			DAN202K MA8068-M MA110 1SS355 1SS133	DIODE ZENER DIODE DIODE DIODE DIODE DIODE		
D28 ,29 D28 ,29 D31 D31 D32			MA110 1SS355 MA110 1SS355 ERA15-01	DIODE DIODE DIODE DIODE DIODE	D	
D33 D34 IC1 IC2 IC3		*	DAN202K MA8062-M BA3424S AN6262N LA1140	DIØDE ZENER DIØDE IC IC(T.ADV) IC(FM IF/DETECTION)		
IC4 IC5 IC6 IC7 IC8			AN7465K TDA1579 NJM4565M HA12134AF TC74HC04AF	IC IC(DECODER) IC IC(DOLBY B NR SYSTEM) IC(INVERTER)	D D	
IC9 IC9 IC10 IC11 IC12	1 :	*	1723GF-605-3BE 1723GF-606-3BE BA3906-V1 TC4081BF NJM4565MD	IC IC IC IC(AND X4) IC(OP AMP X2)	D L	
IC13 IC14 IC15 IC16-18 Q1		*	TC4066BF BA3121F TA8215H NJM4565MD 2SA1428(0,Y)	IC(BILATERAL SWITCH X4) IC IC(AF POWER AMP) IC(OP AMP X2) TRANSISTOR		
Q2 Q3 Q4 -6 Q7 Q15			25C2413K DTC144EK 25C2412K DTC144EK DTC144EK	TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR	D	
Q16 Q17 ,18 Q19 Q20 Q21 -23			2SC2412K DTA144EK DTC144EK DTA144EK 2SC2412K	TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR	L	
924 ,25 926 927 928 929			DTC144EK DTA114EK DTC144EK DTC124EK DTC144EK	DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR		
Q30 Q31 ,32 Q33 Q34 -36 Q37			DTA144EK 2SC2412K DTA144EK 2SC2412K 2SA1037K	DIGITAL TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR		
Q38 Q39,40 Q41 Q42 Q43			2SC2412K DTC144EK 2SB1370F8 2SC2412K 2SA1037K	TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR	D	

E: Scandinavia & Europe K: USA

P: Canada W:Europe

D: KRC-6530 L: KRC-6531

Y: PX(Far East, Hawaii) T: England

M: Other Areas

Y: AAFES(Europe) X: Australia

KRC-6535 VL

Les artici Telle ohr

PARTS LIST

ipplied.

3 Parts No. ne sont pas fournis. 'efert.

Rn	`		arts No.	1	Desc	ription			Desti-	Re-
<i>, , , , , , , , , ,</i>		1	`番号	部(品名	4 / 規	格			marks 備考
		DTC1	277(Q,R) 44EK 44EK 412K	TRANSISTOR TRANSISTOR DIGITAL TRAN DIGITAL TRAN TRANSISTOR					ט	
05 1958 ,59 1960		2SA1 DTC1 DTC1	2412K 428(0,Y) 14EK 44EK 44EK	TRANSISTOR TRANSISTOR DIGITAL TRAI DIGITAL TRAI DIGITAL TRAI	NSIS	TOR				
965 966,67 968,69 970,71 972,73		2SD1 2SC2 2SD1	037K 757K 412K 757K 44EK	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR DIGITAL TRANSISTOR	NSIS	TOR		,	D	
TU1 TU1	2D 2D		-1326-05 -1327-05	FM/AM FRONT					D L	
			SWITCH UN	IT (X25-477	2-70))				
D1 -4		B30-	1349-05	LED						
J1		E59-	-0806-05	RECTANGULAR	PLU	G				
R1 ,2 R3 ,4 R5 ,6		RK73	BEB2B471J BFB2A331J BEB2B471J	CHIP R CHIP R CHIP R	47 33 47	0	J	1/8W 1/10W 1/8W		
S1 -4 S5 ,6 S7 -16 S17		S40- S40-	-1096-05 -1607-05 -1606-05 -1607-05	PUSH SWITCH PUSH SWITCH PUSH SWITCH PUSH SWITCH						
		DA	UGHTER UN	IT (X89-1432	2-70	: D, -	71: l	_)		
D5 LCD1 PL1 ,2 PL3 ,4 PL5	20	* B38- B30- B30-	-1365-05 -0552-05 -1346-05 -1353-05 -1332-05	LED LIQUID CRYS LAMP LAMP LAMP	TAL	(5.5V (5.5V (12V	,125			
PL6		B30-	-1331-05	LAMP		(12V	.06A	,GRN)		
C1 -3		C92-	-0005-05	ELECTRO	2.	2UF	6.	3WV		
J3		* E58	-0815-05	RECTANGULAR	REC	EPTAC	LE			
Q	20	N80-	-2006-46	PAN HEAD TA	PTIT	E SCR	EW			
R1 -4 R5 R6 R7 R8		RK7	3F82A102J 3F82A391J 3F82A103J 3F82A223J 3F82A103J	CHIP R CHIP R CHIP R CHIP R CHIP R	1. 39 10 22 10	K K	J J J	1/10W 1/10W 1/10W 1/10W 1/10W		
R9 R10 R11 R12 R13		RK7 RK7 RK7	3FB2A104J 3FB2A102J 3FB2A223J 3FB2A103J 3FB2A473J	CHIP R CHIP R CHIP R CHIP R CHIP R		K	J J J	1/10W 1/10W 1/10W 1/10W 1/10W		
R14 R15 R16		RK7	3FB2A223J 3FB2A105J 3FB2A332J	CHIP R CHIP R CHIP R		OM OM 3K	J J J	1/10W 1/10W 1/10W		

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P: Canada W:Europe D: KRC-653D L: KRC-653L

Y: PX(Far East, Hawaii) T: England

M: Other Areas

Y: AAFES(Europe) X: Australia

PARTS LIST

* New Parts

Parts without Parts No. are not supplied. Les articles non mentionnes dans le Parts No. ne sont pas fournis. Telle ohne Parts No. werden nicht geliefert.

Parts nation mark	Ref. No.	Address New	Parts No.	Description	Desti- Re-
R177	参照番号	/ 1 Pres			nation marks
D1	W1		R92-2052-05	CHIP R 10K J 1/10W CHIP R 0 J 1/10W	D
D2	S1		S40-1607-05	PUSH SWITCH	
D6	D2 D2 D3		MA110 1SS355 IMN10	DIODE DIODE DIODE	
DATE DATE	D6 -8 D6 -8 Q1 ,2		MA110 1SS355 DTC124EK	DIODE DIODE DIGITAL TRANSISTOR	
CE04DW1H3R3M	Q8 -10		2SC2412K	TRANSISTOR	
C23 C3			DAUGHTER U	NIT (X89-1442-70)	
R1 , 2 R873FB2A392J CHIP R	C2 C3 C4		CK73EB1H273K CK73EB1E104K CK73EB1H223K	CHIP C 0.027UF K CHIP C 0.10UF K CHIP C 0.022UF K	
R3 R4 R4 R4 R4 R5 R6 RK73FB2A563J RK73FB2A563J RK73FB2A3F63J RK73FB2A3F7 RK73FB2A472J CHIP R	J1		E58-0804-05	RECTANGULAR RECEPTACLE	
D1	R3 R4 R5 ,6		R92-0366-05 RK73FB2A563J RK73FB2A223J	CHIP R 560 J 1W CHIP R 56K J 1/10W CHIP R 22K J 1/10W	
D2	W13		R92-2053-05	CHIPR 0 J 1/8W	
Q2	D2 D3 D4		RM10Z ERA15-01 MA110	DIODE DIODE DIODE	
1 2A A10-2089-08 CHASSIS CALKED ASSY 2 2B J21-7207-08 MOUNTING HARDWARE 3 3A D14-0616-08 ROLLER A 4 3A N24-3012-41 E TYPE RETAINING RING 5 2B D14-0617-08 ROLLER B 6 2B D14-0619-08 PINCH ROLLER F 7 2A D14-0619-08 PINCH ROLLER R 8 3A D10-2666-08 LEVER (FR CAM) 9 2B D10-2667-08 LEVER (PROGRAM) 10 2A G01-2560-08 TENSION SPRING 11 3A D13-1079-08 GEAR (IDLE) 12 3A,3B D13-1081-08 GEAR (TAKE UP)	92 ,3		2SA1048 DTC114EK	TRANSISTOR DIGITAL TRANSISTOR	
2		CAS	SETTE MECHANIS	SM ASS'Y (D40-1032-15)	
7	2 3 4	2B 3A 3A	J21-7207-08 D14-0616-08 N24-3012-41	MOUNTING HARDWARE ROLLER A E TYPE RETAINING RING	
12 3A, 3B D13-1081-08 GEAR (TAKE UP)	7 8 9	2A 3A 2B	D14-0619-08 D10-2666-08 D10-2667-08	PINCH ROLLER R LEVER (FR CAM) LEVER (PROGRAM)	
	12	3A,3B	D13-1081-08	GEAR (TAKE UP)	

E: Scandinavia & Europe K: USA

P: Canada W:Europe

Y: PX(Far East, Hawaii) T: England M: Other Areas

D: KRC-653 D L: KRC-651L ⚠ indicates safety critical components.

Y: AAFES(Europe)

X: Australia

SPECIFICATIONS

Specification subject to change without notice.

FM Tuner Section
Frequency Range
Usable Sensitivity (DIN)
Stereo Sensitivity (S/N = 46 dB) 1.6 μ V/75 ohms
Frequency Response (±4.5 dB) 30 Hz~15 kHz
Signal to Noise Ratio (IEC-A)
Selectivity (DIN)
Stereo Separation (1 kHz)
19 kHz Carrier Leakage 65 dB
MW Tuner Section
Frequency Range 531 kHz ~ 1,611 kHz
Usable Sensitivity
LW Tuner Section
5 450 444 004 444
Frequency Range
Frequency Range
, ,
Usable Sensitivity
Usable Sensitivity 60 μ V Cassette Deck Section Tape Speed 4.76 cm/s
Usable Sensitivity 60 μ V Cassette Deck Section Tape Speed 4.76 cm/s Wow & Flutter (WRMS) 0.12% (WRMS)
Usable Sensitivity 60 μ V Cassette Deck Section Tape Speed 4.76 cm/s Wow & Flutter (WRMS) 0.12% (WRMS) Fast Winding Time (C-60) 100 sec
Usable Sensitivity 60 μ V Cassette Deck Section Tape Speed 4.76 cm/s Wow & Flutter (WRMS) 0.12% (WRMS)
Usable Sensitivity. $60 \mu\text{V}$ Cassette Deck Section Tape Speed
Usable Sensitivity
Usable Sensitivity

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Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.
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Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list

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